

20000118.qrp v01_n704.qrl.20000118

Date: Tue, 18 Jan 2000 19:03:10 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1704

QRP-L Digest 1704

Topics covered in this issue include:

- 1) [60601] TGM "minibeam"
by Chris Verbil <Chris_Verbil@Trimble.COM>
- 2) [60602] trade qrp for scope
by James Skalski <jskalski@localnet.com>
- 3) [60603] RE: SKUNK update....
by "NA6E" <mcherry@calweb.com>
- 4) [60604] Ref: A Really Juicy CW Note
by George F Franklin <w0av@juno.com>
- 5) [60605] 160M CW DX contest (clarification)
by Jim Hale <kj5tf@yahoo.com>
- 6) [60606] Re: FYBO 2000
by "John J. McDonough" <wb8rcr@arrl.net>
- 7) [60607] Re: TGM "minibeam"
by charles kadesch <chas@digizen.net>
- 8) [60608] Re: New QRP swap board
by "Gail Perkins" <maggie98@email.msn.com>
- 9) [60609] RE: TGM "minibeam"
by Chris Verbil <Chris_Verbil@Trimble.COM>
- 10) [60610] FS Brass Racer
by "Steve/n0tu" <n0tu@webaccess.net>
- 11) [60611] Tail pipe tubing for antennas
by hamjoel@juno.com
- 12) [60612] 160M QRP
by George F Franklin <w0av@juno.com>
- 13) [60613] Re: [60541] RE: Portable CD-Player/Cassette Adapter
by Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
- 14) [60614] rotateable dipole question
by "Edward A Kwik jr" <eakwikjr@hti.com>
- 15) [60615] Re: MI 2000: Strange Call
by "Edward A Kwik jr" <eakwikjr@hti.com>
- 16) [60616] Re: Source for Friztel Antennas?
by Jim Thiessen <jthiessen@attcanada.net>
- 17) [60617] Re: Tail pipe tubing for antennas
by david fouchey <dafouchey@home.com>
- 18) [60618] Re: 160M QRP
by "Chuck Carpenter" <w5usj@globeco.net>
- 19) [60619] HB: ARS film canister ant tuner

- by Gary Slagel <gdslagel@yahoo.com>
- 20) [60620] HB: Top 10 Parts by Internet Search Frequency
by "James R. Duffey" <jamesd1@flash.net>
- 21) [60621] Re: Ref: A Really Juicy CW Note
by Pete Burbank <plburbank@kih.net>
- 22) [60622] Bart ticket has a new home....
by "KA5T Larry Wise" <lewise@inetport.com>
- 23) [60623] Re: 160M QRP
by "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
- 24) [60624] F.Y.B.O. info needed
by w0yse@juno.com
- 25) [60625] FOX: AF5Z is Fox 1/19 0100-0300Z
by "Bob Helms" <af5z@inetport.com>
- 26) [60626] Re: FYBO 2000
by Bob Hightower <ki7mn@extremezone.com>
- 27) [60627] Tuner: WM-2
by "Richard Matthews" <prm@hiwaay.net>
- 28) [60628] Q-Multiplier
by Wayne Alexander <walexan@ipa.net>
- 29) [60629] Raibeam
by "Dan W. Dooley" <dandooley@pipeline.com>
- 30) [60630] hw-7
by Jim Cotton <cotton@wmich.edu>
- 31) [60631] Re: Raibeam
by "Dan W. Dooley" <dandooley@pipeline.com>
- 32) [60632] List Weirdness
by Rod Cerkoney <n0rc@yahoo.com>
- 33) [60633] Fw: QRP-L instructions...short version
by "Walt Amos" <waltamos@surfree.com>
- 34) [60634] WB8RCR's address
by "John J. McDonough" <wb8rcr@arrl.net>
- 35) [60635] Antennas: 160 M Loop Rcv Antennas
by "Chuck Carpenter" <w5usj@globeco.net>
- 36) [60636] Antennas: 40 M Loaded Shorty
by "Chuck Carpenter" <w5usj@globeco.net>
- 37) [60637] Re: rotateable dipole question
by "Bob Tellefsen" <n6wg@earthlink.net>
- 38) [60638] OPERATING: 160 Monday Night
by "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
- 39) [60639] RS and more advanced hams--long
by "Jim Crooke" <crooke@prodigy.net>
- 40) [60640] WTB: Wilderness SST-30, SST-20 Emtech ZM-2
by "Kelly Ellison" <kelman@dialnet.net>
- 41) [60641] FS:MFJ 40 Meter SSB/CW QRP Station
by ABCQRP <w6abc@yahoo.com>
- 42) [60642] Re: List Weirdness
by "Rod, N0RC" <n0rc@yahoo.com>
- 43) [60643] Re: TGM "minibeams"

by "Tom H" <hybiske@generalatronics.com>
44) [60644] Re: TGM "minibeams"
by "K3GM" <k3gm@home.com>
45) [60645] RE: Tuner ZM-2.
by Ed Loranger <we6w@netzero.net>
46) [60646] ArkieCon and VE3DNL Marker/Generator
by "Jay Bromley" <w5jay@alltel.net>
47) [60647] Re: RS and more advanced hams--long
by "Don Wilhelm" <w3fpr@arrl.net>
48) [60648] QRP Swap Board Finale
by ABCQRP <w6abc@yahoo.com>
49) [60649] FOX Log for 1/14/00 (N7MFB)
by "Bill Todd" <zapzap73@hotmail.com>
50) [60650] FYBO Contest - 2/5/2000 - are you operating?
by "Jerry Scherkenbach" <jerrys@execpc.com>
51) [60651] RE: HELP on UNK SMT transistors
by "Ed Tanton" <n4xy@att.net>
52) [60652] mps901 pinout and hFE
by Jeff Furman <jfurman@ocs.net>
53) [60653] QRP for sale, WTB, swap should be here...
by "Tom Scott" <tscott@eni.net>
54) [60654] Re: rotateable dipole question
by "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
55) [60655] 160 metres
by Fred Lesnick <flesnick@tbaytel.net>
56) [60656] ? antenna and matcher for QRP student rigs...
by "Tom Scott" <tscott@eni.net>
57) [60657] Hawaii Hamfest Needs QRP Demo
by "David Hurley,n2zhy" <n2zhy@amsat.org>
58) [60658] Re: RS and more advanced hams--long
by "Mike Yetsko" <myetsko@insydesw.com>
59) [60659] Help! Tektronix Oscscope 503
by Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
60) [60660] Iowa QRP Net
by markmilburn <markmilburn@netzero.net>
61) [60661] Re: RS and more advanced hams--long
by Curt Milton <wb8yyy@yahoo.com>
62) [60662] RE: Portable CD-Player/Cassette Adapter
by "White, Joseph H." <jhw@rti.org>
63) [60663] Re: [Antennas] ? antenna and matcher for QRP student rigs...
by PaulKB8N@aol.com
64) [60664] CW Traffic Nets
by Fred Lesnick <flesnick@tbaytel.net>
65) [60665] Blocking Diode Help
by "Ward Hill, N1IE" <w_hill@ns.net>
66) [60666] RE: Blocking Diode Help
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
67) [60667] Solder Lugs

by hattonte@gdls.com

68) [60668] Circuit board layout hints
by trackerdan@earthlink.net

69) [60669] Re: Antennas: 160 M Loop Rcv Antennas
by "Everhart, Joseph @ CSE" <jeverhar@mail.cse.1-3com.com>

70) [60670] Re: Circuit board layout hints
by "Tom Hybiske" <hybiske@generalatronics.com>

71) [60671] Re: Blocking Diode Help
by Monte Stark <ku7y@dri.edu>

72) [60672] Solar Flare?
by wb2vuo@juno.com

73) [60673] Re: FYBO Contest - 2/5/2000 - are you operating?
by "Joseph Spencer" <kk5na@quadj.com>

74) [60674] Re: [Elecraft] Blocking Diode Help
by "Bob Tellefsen" <n6wg@earthlink.net>

75) [60675] Re: Solar Flare?
by wb2vuo@juno.com

76) [60676] FT-757GXII TNX
by "Joseph Street" <joseph.street@comdev.ca>

77) [60677] FS:QRP stuff
by Bcieslak@ra.rockwell.com

78) [60678] FYBO Website
by AD6EZ@aol.com

79) [60679] Knight RF Signal Generator
by hattonte@gdls.com

80) [60680] FS or TRADE - freq counter
by "Brockwell, Stephen E." <brockwse@fssec.army.mil>

81) [60681] Re: FYBO Website
by Brian Short <bshort@speedchoice.com>

82) [60682] Finally! WAZ with 5 watts
by "George Steinert" <n6zs@ix.netcom.com>

83) [60683] Re: FS:QRP stuff
by Bcieslak@ra.rockwell.com

84) [60684] Central Electronics Q-Multiplier
by Karl Kanalz <KKanalz@excel.com>

85) [60685] WIRE / ROPE ANTENNAS
by hamjoel@juno.com

86) [60686] Re: FYBO Website
by Roger Hightower <n7kt@earthlink.net>

87) [60687] FYBO 2000
by Bob Hightower <ki7mn@extremezone.com>

88) [60688] Re: Antennas: 160 M Loop Rcv Antennas
by Pete Burbank <plburbank@kih.net>

89) [60689] Mizuho qrp
by Jerry Parker <jparker@fix.net>

90) [60690] RE: HELP on UNK SMT transistors
by Laura Halliday <lha@sdr.utias.utoronto.ca>

91) [60691] RE: Blocking Diode Help

- by "Steven Weber" <kd1jv@moose.ncia.net>
- 92) [60692] Re: FYBO 2000
by Bob Nielsen <nielsen@primenet.com>
- 93) [60693] Wanted... Kent Single Lever Paddle (SP1)
by W9SUL <pugrad@millcomm.com>
- 94) [60694] QRP/QRO Cheaters
by "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
- 95) [60695] Re:300 Ohm Feedline Measurements.
by Ed Loranger <we6w@qsl.net>
- 96) [60696] Re: HW8 bitz
by "Mel Evans, Registered Arachne User" <mel@euramcom.freemove.co.uk>
- 97) [60697] Stable oscillator, Vackar,etc.
by "Tom Bowman" <tbowman@nbn.net>
- 98) [60698] Re: HELP on UNK SMT transistors
by Arjen Raateland <Arjen.Raateland@vyh.fi>
- 99) [60699] DCTL ANT TEST TONITE 0100Z
by ARDUJENSKI@aol.com
- 100) [60700] 10 meter qso...
by tom whalen <wb5qyt@eFortress.com>
- 101) [60701] Re: FYBO 2000
by "Ron Polityka" <wb3aal@talon.net>
- 102) [60702] DXCC QRP!!
by "Jay Bromley" <w5jay@alltel.net>
- 103) [60703] Re: Finally! WAZ with 5 watts
by Joe Reed <joe@n9jr.dyndns.org>
- 104) [60704] Re: Solar Flare?
by wb2vuo@juno.com
- 105) [60705] Jim, N2GO's Scope
by "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
- 106) [60706] OPERATING: QRPpp
by "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
- 107) [60707] Tnx For FYBO Info.
by AD6EZ@aol.com
- 108) [60708] 10 Meters Today
by wb2vuo@juno.com

Date: Mon, 17 Jan 2000 16:08:17 -0800
From: Chris Verbil <Chris_Verbil@Trimble.COM>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [60601] TGM "minibeams"
Message-ID: <8B0BE50D6F9AD01185A300A0C92BF45504E54B19@US01XCH01.Trimble.COM>
MIME-Version: 1.0
Content-Type: text/plain

Hopefully I am not bringing up a recent subject that I missed in all the digests...

Does anybody on the list have information, good or bad, about the MQ-1 and MQ-2 minibeams made by TGM in Ontario?

You may reply to me directly, or please cc: me if you post your replies back to the list server.

Chris
N5CV

Date: Mon, 17 Jan 2000 19:09:57 -0500 (EST)
From: James Skalski <jskalski@localnet.com>
To: qrp-1@Lehigh.EDU
Subject: [60602] trade qrp for scope
Message-ID: <Pine.LNX.4.20.0001171857040.880-100000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have some qrp that is excess to my needs. I am looking for an extra binocular microscope with light source, fine adjustable stage. Hey, you never know...

I have a S&S engineering ARK-40 with optional keyer kit the keyer kit is unbuilt. Both are as new, virtually unused/keyer is unused and unbuilt.

I need a scope for home to identify brewing yeasts cultures...no kidding:) Maybe somebody has a scope that is excess to their needs. Any docs out there that no longer do any lab tests in the office?

73,

Jim n2go

Date: Mon, 17 Jan 2000 16:05:18 -0800
From: "NA6E" <mcherry@calweb.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60603] RE: SKUNK update....
Message-ID: <NDBBKOCKJPLPOBNH00JJKENOCFAA.mcherry@calweb.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes, I will vouch for Ron having that nasty critter setting up quarters under his shack and as much as he tried to convince me that it would improve my cw operating skills, I refused to include it in the portable KU7Y shack here in Sacramento. I think it needs to be added to that list which includes super glue....

What I did agree to bring back and will have on the air for the foxhunt on Tuesday is the infamous KU7Y Norcal 40. What a great rig that is.

** 73 **

Mary, NA6ESacramento, CA
QRP-C #7 ARCI #9923 WHINERS #2

Date: Mon, 17 Jan 2000 18:35:08 -0600
From: George F Franklin <w0av@juno.com>
To: qrp-1@lehigh.edu
Subject: [60604] Ref: A Really Juicy CW Note
Message-ID: <20000117.183509.-480637.0.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Fellow QRPers,

I worked a few stations in the MI QRP test over the weekend with my K2, but the highlight of my day was a VE3 (didn't catch his call) on 14061 with a note which sounded like a cross between a buzz saw and a Bronx cheer.

It made my day. I haven't heard a signal like that since pre WW2 back in the thirties when there were a few so-called TNT (tuned, not tuned; referring to the grid and plate tank circuits) oscillators with poorly filtered power supplies. The old term for such a signal was RAC (rectified AC) but it was also often called "raw AC."

As I recall, some rigs actually used the 120 Hz AC as the HV on a push-pull tube oscillator. The results were unforgettable.

VE3, whoever you were, thanks for the memories!

72 de George/W0AV

Date: Mon, 17 Jan 2000 16:43:13 -0800 (PST)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [60605] 160M CW DX contest (clarification)
Message-ID: <20000118004313.4367.qmail@web704.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Maybe I was over optimistic. :)

On 160M we may not bag any EuroDX here in mid America.

My plan is to go after short haul DX, like NP2's,
NP4's, PJ's or maybe VE land DX.

When they are CQ'ing with no callers, at some moment I
will go to work on them. Starting at really low mW's,
like 20mW's or in there somewhere. If they dont hear
me, I'll notch up and try again.

Thats how I find the natural limits to QRPP.

Thanks to Larry Calhoon WD3P for getting my attention
on the reality of 160M DX with QRPP.

I'm more knowledgable on high bands myself.

After the puffs of smoke clear on 30 January, I'll
know a little.

Jim KJ5TF
"All Milliwatts, All the time"

=====
Ham radio/alt energy - <http://www.madisoncounty.net/~kj5tf/>
Milliwatting Editor ARCI QRP Quarterly
AR QRP#2 - Kingston, Arkansas 35.94N 93.47W
Private email kj5tf@madisoncounty.net

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Mon, 17 Jan 2000 19:46:32 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [60606] Re: FYBO 2000
Message-ID: <023c01bf614d\$781e7020\$010044c0@cb29328-e.baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Everyone keeps going on about FYBO - where's the rules this year? None of my links from last year led anywhere useful, nor did any of the obvious club sites.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Mon, 17 Jan 2000 19:52:27 -0800
From: charles kadesch <chas@digizen.net>
To: Chris_Verbil@Trimble.COM
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60607] Re: TGM "minibeams"
Message-ID: <3883E37B.188E3B5B@digizen.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The MQ-1 appears to be the successor to the old HQ-1 Hybrid Mini-Quad that was made and sold in the U.S. for many years. I had good results with mine. If the quality of the TGM version is the same (particularly the hi-Q end loading coils), it ought to be a good performer also. Being a hi-Q antenna, it is fairly sharp in resonance and should be kept away from other conductors. A bit tricky to adjust (pruning the end "spikes"). Not a lot of gain, but exhibited good front to back and front to side ratios.

-72-

Chas W3KC

Chris Verbil wrote:

>

> Hopefully I am not bringing up a recent subject that I missed in all the
> digests...

>
> Does anybody on the list have information, good or bad, about the MQ-1 and
> MQ-2 minibeamers made by TGM in Ontario?
>
> You may reply to me directly, or please cc: me if you post your replies back
> to the list server.
>
> Chris
> N5CV

Date: Mon, 17 Jan 2000 17:57:20 -0700
From: "Gail Perkins" <maggie98@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60608] Re: New QRP swap board
Message-ID: <002f01bf614e\$f9dcbe40\$6bda0e3f@maggie>

I agree that FS/Swap should be allowed here. After all it is qrp, right<

73

Kevin, KA7GQX
ka7gqx@arrl.net
qrp-1# 2116

Date: Mon, 17 Jan 2000 17:05:06 -0800
From: Chris Verbil <Chris_Verbil@Trimble.COM>
To: "'Ed Manuel (N5EM)'" <n5em@flash.net>
Cc: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [60609] RE: TGM "minibeams"
Message-ID: <8B0BE50D6F9AD01185A300A0C92BF45504E54B1C@US01XCH01.Trimble.COM>
MIME-Version: 1.0
Content-Type: text/plain

OK, for all of those that are asking - here is the web page for TGM. The MQ
antennas look sort of like two MFJ-1796's laid on the side, with the
addition of the reflector gizmo in the back.

<http://www3.sympatico.ca/t.g.m./index.html>

Chris
N5CV

> -----
> From: Ed Manuel (N5EM)[SMTP:n5em@flash.net]
> Sent: January 17, 2000 4:55 PM
> To: Chris Verbil
> Subject: Re: TGM "minibeams"
>
> Know if they have a website?
>
> Ed, N5EM
>
>
> At 04:08 PM 1/17/00 -0800, you wrote:
> >Hopefully I am not bringing up a recent subject that I missed in all the
> >digests...
> >
> >Does anybody on the list have information, good or bad, about the MQ-1
> and
> >MQ-2 minibeams made by TGM in Ontario?
> >
> >You may reply to me directly, or please cc: me if you post your replies
> back
> >to the list server.
> >
> >Chris
> >N5CV
>

Date: Mon, 17 Jan 2000 18:10:17 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [60610] FS Brass Racer
Message-ID: <005201bf6150\$c895c640\$5448460f@snp.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

BRASS RACER Paddle w/keyer in base:
EK-1(it's the one which has the Curtis keyer in the base) It's about 15
years old, some wear and tear but paddle still works fine, no missing
parts.- Keyer on the other hand is missing the speed control that mounts in
the base. Right now, I used a slide pot double stick taped to the top of
the
magnet brace to adjust the speed. So it works! Was thinking of installing a
TiCK keyer in the base but no time! Wood base and brass need cleaning but

no major dings or scratches or missing parts other than the speed control
pot. \$50 OBO Shipped CON US! Steve/n0tu - Monument, CO

Date: Mon, 17 Jan 2000 20:16:03 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [60611] Tail pipe tubing for antennas
Message-ID: <20000117.201605.-136923.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

yes, darn, it's me once meaux:

sorry to inflict ya but I been wondering for a bunch of years.... I
noticed one day when I was having my fuffler changed... that the metal
used for tail pipes was very strong and very light.... anyone kneaux
anything about this tubing as an antenna material?
Sry to bother u'all again but I just remembered that I forgot to
remember to ask the group about this ...

Joel KE1LA
In Maine

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Mon, 17 Jan 2000 19:22:59 -0600
From: George F Franklin <w0av@juno.com>
To: qrp-l@lehigh.edu
Subject: [60612] 160M QRP
Message-ID: <20000117.192300.-480637.0.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

He 160M QRPers,

Right now, 0118Z, I am copying WB8QYY/QRP in QSO with KC4COH/QRP on 1810.

Both have fair to good signals here in Kansas City, MO.

Also heard QRP W5USJ call CQ but he evidently didn't copy my 5W.

Noise level here is down to S4, which is the lowest I have heard it in many moons.

72 de George/W0AV

Date: Mon, 17 Jan 2000 17:23:53 -0800 (PST)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
To: Kkanalz@excel.com
Cc: mcintos@basf-corp.com, qrp-1@Lehigh.EDU
Subject: [60613] Re: [60541] RE: Portable CD-Player/Cassette Adapter
Message-ID: <200001180123.RAA14267@netcom.com>

And you can get a Kenwood cassette receiver for your car that has an attachment box that allows you to feed any audio signal into the radio.

It works very well. Send me mail if you want details.

73, doug

Date: Mon, 17 Jan 2000 20:19:32 -0500
From: "Edward A Kwik jr" <eakwikjr@hti.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [60614] rotateable dipole question
Message-ID: <3883BFA4.B73DC06F@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This thread has caught my interest. I have an old ARRL Antenna Book dated 1968. On page 209 and 210 it shows the antenna with the two, 10 foot lengths of electrical conduit and center loading coil. The text also talks about mods to the basic design for 10 and 20 meters. What I would like is something for 30 meters. Would anybody know how practical a short dipole say 30 feet overall would be? What would the loading coil be? BTW I will be getting a new computer in a couple of days. Anybody got an old copy of antenna modeling software they would like to sell?

Ed Kwik AB8DF

Date: Mon, 17 Jan 2000 20:01:27 -0500
From: "Edward A Kwik jr" <eakwikjr@hti.com>
To: malman@world.std.com, "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [60615] Re: MI 2000: Strange Call
Message-ID: <3883BB67.B7A53F30@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Joel,
Nice to work you in the MI contest. I also worked 3E2K and thought it was Cam HP1AC. BTW got 87 QSOs for the test.

Ed Kwik AB8DF

Joel Malman wrote:

>
> Folks,
>
> I worked 3E2K on both 20 and 15 yesterday in the MI QRP 2000 Contest.
> The op said he was in Panama. None of my country lists say that 3E2
> is assigned at all.
>
> Anyone else work him?
>
> Think he is a 'slim'?
>
> 72
> --
> /joel K1QM (K1 Queen Mary) Concord, Massachusetts
> QRP-L 337, QRP-ARCI 9305, MI-QRP 1641, NorCal #1884

Date: Mon, 17 Jan 2000 20:27:10 -0500
From: Jim Thiessen <jthiessen@attcanada.net>
To: qrp-1@Lehigh.EDU
Subject: [60616] Re: Source for Friztel Antennas?
Message-ID: <3883C16E.61237FA7@attcanada.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John

Just before the snow started flying here I pulled a Kurt Fritzel GPA50 multiband vertical out of storage and installed it on my deck so I could get back on the air. My father bought this antenna in Germany back in the 80's.

The instruction manual that I have is in German dates back to 1984 and shows the phone number 06236-52044. I went on the German Yahoo site and found a German Telephone book. No phone number was provided but the current address according to "Das Telefonbuch" is:

Kurt Fritzel Antennen fur Kurzwellenfunk, KG
Siemensstr. 2, 67141 Neuhofen
Germany

Hope this helps

73's
Jim VA3KV
Rockland Ontario

Date: Mon, 17 Jan 2000 20:28:09 -0500
From: david fouchey <dafouchey@home.com>
To: hamjoel@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60617] Re: Tail pipe tubing for antennas
Message-ID: <3883C1A9.A51D222B@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wasn't there an article years ago on a 7 Mhz DDDR made out of tail pipe material?

Dave
WA4EMR/8

hamjoel@juno.com wrote:

>

> yes, darn, it's me once meaux:
> sorry to inflict ya but I been wondering for a bunch of years.... I
> noticed one day when I was having my fuffler changed... that the metal
> used for tail pipes was very strong and very light.... anyone kneaux
> anything about this tubing as an antenna material?
> Sry to bother u'all again but I just remembered that I forgot to
> remember to ask the group about this ...
>
> Joel KE1LA
> In Maine
>
> -----
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!
> Juno now offers FREE Internet Access!
> Try it today - there's no risk! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.

Date: Mon, 17 Jan 2000 19:36:41 -0600
From: "Chuck Carpenter" <w5usj@globeco.net>
To: w0av@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [60618] Re: 160M QRP
Message-ID: <3.0.2.32.20000117193641.007af4b0@bosshog.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi George,

The QRN is running at S7 from power line noise tonight. I was trying to call on the main antenna and listen on another antenna that was sounding quiet. Too quiet I think, if I couldn't hear you. Thanks for giving it a try. I'll be making more attempts here so maybe we can connect.

It's good to know that I'm getting out to zero land and other places. At least I know I'm transmitting. Now if I could find a way to turn off the spark gap transmission lines so I could hear 8^)...

Chuck Carpenter, EM22cv, Point, Rains County, Texas

Date: Mon, 17 Jan 2000 17:45:56 -0800 (PST)
From: Gary Slagel <gds slagel@yahoo.com>

To: QRP L <qrp-l@Lehigh.EDU>
Subject: [60619] HB: ARS film canister ant tuner
Message-ID: <20000118014556.23679.qmail@web210.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I saw the film cannister tuner on the ARS page this month and plan to build the little tuner they describe for 20 meters.

I'm betting that after I get it built I'll want to build one for several other bands (40,30,15,17). Can anyone help me out with what adjustments I need to make to the coil and the capacitor to build it for the other bands? OR... can anyone point me at some literature that discusses this circuit so I might be able to figure it out for myself?

Thanks for the help.... 73, gary

=====

Gary Slagel/N0SXX
Conifer, CO 80433
gdslagel@yahoo.com
Personal Website: <http://marina.fortunecity.com/sanpedro/351>

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Mon, 17 Jan 2000 18:59:24 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: Qrp-l@lehigh.edu
Subject: [60620] HB: Top 10 Parts by Internet Search Frequency
Message-ID: <200001180159.TAA29593@bunyip.flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

All - I just got around to reading the Electronics Industry Yearbook 2000 Edition which came with the EDN magazine (a trade journal) a few weeks ago. I am a bit slow in reading my free mail as well as my e-mail. They have a collection of "Top Ten" lists, one of which is "Most Frequently-Searched Parts Numbers". I thought I would share it with you as there are some familiar parts on the list. I suppose that this also translates into a sort of "most commonly used parts list" as well. The

comments are mine.

1. 2N2222

No surprise here, other than a 30 plus year old discrete part leads the list in a highly integrated part era. Participants in the 2N2222 building contest should not be surprised to see this part top the list as it was used in all sorts of circuits. Its longevity is not surprising as part manufacturers have constantly improved it since it was improved.

2. LM317

This versatile variable regulator is found in lots of designs, although the newer low drop out regulators offer better performance with lower power dissipation if properly bypassed.

3. 1N4148

This fast diode is no stranger to QRPers either. Another long lived part.

4. LM324

This quad op amp is not as commonly used in amateur designs as the other parts. Amateurs seem to prefer the old 741s or the newer (comparitively) NE5534. This is probably due to the major application of OP Amps to amateur use is in low frequency applications for which several parts are better suited than the LM324, although it is a pretty good part.

5. LM555

Another ubiquitous part that has lots of uses. Again, this part is no stranger to QRPer builders.

6. 2N3055

This part is almost universally used for high current DC pass transistors. There are better parts with much larger safe operating areas, such as the 2N3772, so it is a bit of a mystery to me why this part has obtained such common use. None the less, I am not surprised by its inclusion in this list.

7. MAX 232

This RS-232 transceiver has become commonly used. Maxim has parlayed the charge pump (voltage doubler) into lots of different parts and the 232 was one of the first. QRPers dont use this part much.

8. 7805

I think that EDN has mislabeled this part. It has several alternate parts listed, none of which seem to be commonly used parts. I think that they must be refering to the 5 Volt regualtor which seems to be used everywhere 5 V logic is used. Again, properly bypassed low drop out voltage regulators are preferred.

9. LM339

This quad comparator is the industry standard. Comparators don't seem to be used much in Ham Radio projects, but when they are this part is usually specified.

10 7400

This quad NAND input gate can be used in a variety of ways in digital designs. It is the 2N2222 of the digital world.

Of interest to me is that the first 6 parts or so are all "old timers" dating back at least 20 years and more than 30 years in some cases. I think that all on the list but the 232 are in this category. I suppose that this speaks to the conservative nature of electronics design; that is go with proven parts wherever possible.

I hope that this is of some interest. Also of note was that 15% of Design and Development Engineers and Engineering Managers (Oxymoron) listed Ham Radio as their favorite hobby. This tied for 3rd place behind Reading and Fishing. - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Mon, 17 Jan 2000 21:03:09 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [60621] Re: Ref: A Really Juicy CW Note
Message-ID: <3.0.32.20000117210305.0072b558@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:35 PM 1/17/00 -0600, you wrote:

>Hi Fellow QRPers,

>

>I worked a few stations in the MI QRP test over the weekend with my K2,
>but the highlight of my day was a VE3 (didn't catch his call) on 14061
>with a note which sounded like a cross between a buzz saw and a Bronx
>cheer.

>

>VE3, whoever you were, thanks for the memories!

>

>72 de George/W0AV

George and gang.

I have always been curious why so many Cuban stations sound a bit "juicy". Many, many times I have heard CW and thought "that is a Cuban" and sure 'nuf he signs C0xxxx. Maybe Prof. Coro can shed some light on this. :-)
73 Pete NV4V

Date: Tue, 18 Jan 2000 02:10:43
From: "KA5T Larry Wise" <lewise@inetport.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [60622] Bart ticket has a new home....
Message-ID: <200001180210.UAA04502@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Date: Mon, 17 Jan 2000 21:12:20 -0500
From: "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60623] Re: 160M QRP
Message-ID: <004801bf615a\$29eb2350\$0102030a@amd300>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Ditto on the low noise levels...
Signals seem real good here...
I'll stick around near 1811 for any mW qso's

73 - Dieter (DIZ) Gentzow - WB8QYY "oo's"
Loveland, Ohio - NE suburb of Cincinnati
FPqrp#-1 DL-QRP-AG#1454 QRP-L#1998 10-X#9389 CATT#26 K2#493
<http://w3.one.net/~gentzow/wb8qyy.htm>

----- Original Message -----
From: "George F Franklin" <w0av@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, January 17, 2000 8:23 PM
Subject: 160M QRP

> He 160M QRPers,
>
> Right now, 0118Z, I am copying WB8QYY/QRP in QSO with KC4COH/QRP on 1810.
>
> Both have fair to good signals here in Kansas City, MO.
>
> Also heard QRP W5USJ call CQ but he evidently didn't copy my 5W.
>
> Noise level here is down to S4, which is the lowest I have heard it in
> many moons.
>
> 72 de George/W0AV
>

Date: Mon, 17 Jan 2000 19:12:25 -0700
From: w0yse@juno.com
To: qrp-l@Lehigh.EDU
Subject: [60624] F.Y.B.O. info needed
Message-ID: <20000117.192607.-41938189.2.w0yse@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Gang,

Where can I find the Freeze Your B--- Off rules, times, etc. information.
I am obviously not searching in the right places. A direct reply would
be appreciated as I am on the Digest.

Thanks,
72,
Neil K. w0yse, Utah

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Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Mon, 17 Jan 2000 19:36:58 -0600
From: "Bob Helms" <af5z@inetport.com>
To: "QRP-L Reflector" <qrp-l@lehigh.edu>

Subject: [60625] FOX: AF5Z is Fox 1/19 0100-0300Z
Message-ID: <200001180236.UAA06520@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

AF5Z will be 'the FOX' at 0100 Jan 19/2000 UTC (That's 7:00 PM CST on Tuesday Jan 18th for the UTC challenged). Please convert to your own time zones.

Operating frequency will be near 7042 +/- QRM and RIT will be used widely!
A Ten-Tec Corsair II, 250 Hz filter, DSP unit and a 80 Meter Full-Wave Horizontal Delta Loop at 40-60 feet will be used.

Exchange will be:

(HOUND CALL) RST TX BOB 984 (HOUND CALL) DE AF5Z

Code will be brisk but speed will be adjusted to somewhat match the callers speed.

I'm a contester fellows - - Let's see how many of you I can get - - 35 WPM and below is OK! Yep, unless this computer dies again, I'll be using it!!

72,
Bob Helms, AF5Z
af5z@inetport.com
Georgetown, TX

Date: Mon, 17 Jan 2000 19:40:39 -0700
From: Bob Hightower <ki7mn@extremezone.com>
To: wb8rcr@arrl.net
Cc: qrp-1@lehigh.edu
Subject: [60626] Re: FYBO 2000
Message-ID: <200001180237.TAA21202@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:46 PM 1/17/00 -0500, you wrote:
>Everyone keeps going on about FYBO - where's the rules this year? None of
>my links from last year led anywhere useful, nor did any of the obvious club
>sites.
>

Just put them up, John. Go to <http://www.extremezone.com/~ki7mn/fybo2k.htm>

for them.

Bob Hightower KI7MN
Chandler, AZ

<http://www.extremezone.com/~ki7mn>

Date: Mon, 17 Jan 2000 20:48:22 -0600
From: "Richard Matthews" <prm@hiwaay.net>
To: "q" <qrp-1@Lehigh.edu>
Subject: [60627] Tuner: WM-2
Message-ID: <007901bf615e\$7cc26d00\$6f85150c@scottsboro.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Well, I just now finished putting together the Emtech WM-2 ant tuner. I hooked it to my 40 meter dipole and tuned until the LED went out the manual says that's tuned.

Will everything I hook to the tuner tune down to "no light" or will some just be "low light".

It may just be me, but I found the DSW kits that I assembled much easier than this assembly. I wouldn't call this assembly hard, but aggravating. I wasn't set up to cut the holes in the face panel, used a dremmel tool, also the toroids were a bit of a task to wind especially the small one with the fine wire.

I'm not complaining mind you, I think it is a fair price and from what I've heard it is a fine little QRP tuner. I guess Dave's easy kits just spoiled me.

Here is a list of all my worldly ham possessions that I have collected since getting back on a few months ago

DSW-40
DSW-30
WM-2 wattmeter
ZM-2 ATU
a 30 meter inverted vee on my old boat
a 40 meter inverted vee above the house
a portable 40 meter inverted vee
a 12 volt AA battery pack
an old RS Micranta 12 VDC power supply

an old JJ-38 straight key
a cheap iambic paddle

That's it what else could a man want?

What should I add next, QRP wise that is? I know some of you who have heard
my sending will say, "Code practice", but we're talking equipment here:-)

72,

Richard, WA4NWW, Don't tell my XYL

Date: Mon, 17 Jan 2000 20:50:29 -0600
From: Wayne Alexander <walexan@ipa.net>
To: qrp-l@Lehigh.EDU
Subject: [60628] Q-Multiplier
Message-ID: <4.2.0.58.20000117204641.00972820@popd.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I am in need of a manual for this.
It is a Central Electronics Multi Phase Q-Multiplier.
Model is a DQ.
I have looked at W7FG and he does not have one.
Does any one have one that can copy it for me?
I will pay for coping and postage.
Thanks,

73,
NOEA
Wayne
Willard,MO
FISTS # 4907
QRP-L # 1058

Date: Mon, 17 Jan 2000 20:57:07 -0600
From: "Dan W. Doooley" <dandooley@pipeline.com>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [60629] Raibeam
Message-ID: <006701bf615f\$b5f6c8e0\$05987b7b@CSS0048.bergenbrunswick.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone familiar with the Raibeam? First noticed them an QST this month, though I'll bet they've been in there a long time. The specs look VERY good. Boom length of 12 ft and gain and bandwidth patterns which compare favorably to my old TH6DXX.

A little "pricy" I guess, but it sure looks like good solid construction. Seperate feed points for the different bands?

Hmmm, still looks like it might work nicely at the top of my tower.....

Dan W. Dooley WB5TKA
e-mail to: dandooley@pipeline.com
May Goddes love blest ye alle

Date: Mon, 17 Jan 2000 21:58:27 -0500 (EST)
From: Jim Cotton <cotton@wmich.edu>
To: qrp-l@lehigh.edu
Subject: [60630] hw-7
Message-ID: <Pine.GS0.4.10.10001172157190.13636-1000000@grog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am looking for a schematic and alignment instructions for a HW-7.

Jim Cotton, N8QOH		jim.cotton@wmich.edu
Western Michigan University		Phone: (616) 387-6421
Network Systems Group		Fax: (616) 387-5473

Date: Mon, 17 Jan 2000 21:04:00 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: <dandooley@pipeline.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [60631] Re: Raibeam
Message-ID: <007c01bf6160\$ab88fee0\$05987b7b@CSS0048.bergenbrunswick.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Oh yeah, site is www.raibeam.com

-----Original Message-----

From: Dan W. Dooley <dandooley@pipeline.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Monday, January 17, 2000 8:59 PM
Subject: Raibeam

>Anyone familiar with the Raibeam? First noticed them an QST this month,
>though I'll bet they've been in there a long time. The specs look VERY
>good. Boom length of 12 ft and gain and bandwidth patterns which compare
>favorably to my old TH6DXX.

>

>A little "pricy" I guess, but it sure looks like good solid construction.
>Seperate feed points for the different bands?

>

>Hmmm, still looks like it might work nicely at the top of my tower.....

>

>Dan W. Dooley WB5TKA
> e-mail to: dandooley@pipeline.com
>May Goddes love blest ye alle

>

>

Date: Mon, 17 Jan 2000 19:09:43 -0800 (PST)
From: Rod Cerkoney <n0rc@yahoo.com>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [60632] List Weirdness
Message-ID: <20000118030943.4765.qmail@web903.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Folks:

Earlier today I posted about going to Atlanticon, I never saw my original post mailed back to me. Yet, others did see it, I got replies! Any ideas what might have happened?

Anyway, I'm excited about Atlanticon.

=====

73, Rod N0RC

Do You Yahoo!?

Talk to your friends online with Yahoo! Messenger.

<http://im.yahoo.com>

Date: Mon, 17 Jan 2000 21:59:27 -0000

From: "Walt Amos" <waltamos@surfree.com>

To: "Qrp-l Posts" <qrp-l@lehigh.edu>

Subject: [60633] Fw: QRP-L instructions...short version

Message-ID: <000301bf6163\$10d95b80\$5b891b26@waltk8cv>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

One more thing is to add

end

after your command on a new line as juno and NetZero advertisements will
muck things up some times!

Walt k8cv

----- Original Message -----

From: "markmilburn" <markmilburn@netzero.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Monday, January 17, 2000 18:42

Subject: QRP-L instructions...short version

> Here's a short version of the QRP-L commands. If you need the more

> esoteric stuff, let me know, but this ought to cover most situations.

> 72 Mark

>

>

> Commands must be sent to listserv@lehigh.edu Most problems in not

> getting the list to do what you want is because the commands are sent to

> the list, not to the listserver.

> The commands must be in the BODY of the message, not the subject.

>

```
> Getting on the List:
>   subscribe QRP-L John Doe K5FJZ
>
> Getting off the list:
>   unsubscribe QRP-L
>
> Subscribing to the digest
>   set QRP-L mail digest
>
>
> Postponing your subscription
>   set QRP-L mail postpone
>
> Returning the messages to individual postings from the digest mode
>   set QRP-L mail ACK
>
> Getting a list of subscribers
>   recipients QRP-L
>
> Getting a QRP-L number
>   run QRP-L X getnr callsign (use none if you don't have a call yet)
>
>
> -----
> NetZero - Defenders of the Free World
> Get your FREE Internet Access and Email at
> http://www.netzero.net/download/index.html
>
```

```
-----

Date: Mon, 17 Jan 2000 22:17:53 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [60634] WB8RCR's address
Message-ID: <02e901bf6162$9d2ca020$010044c0@cb29328-e.baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

Gang,

My email address has changed - the correct address is wb8rcr@arrl.net. Also, I've noticed a fair number of links out there to the old tm.net website. That site is gone ... my main site is listed below, my ham radio pages are at qsl.net and linked to from the address below (as they have been for some time). QSLMaker is at <http://hfradio.org/wb8rcr/> as it has been

since before 2.2.

Please update your address lists and links ... the tm.net index page and email address should go away in a couple of weeks. Also, my web pages have been cleaned up and a little extra content added (tho the content is mostly the same). Stop by and visit for a bit.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Mon, 17 Jan 2000 21:37:55 -0600
From: "Chuck Carpenter" <w5usj@globeco.net>
To: qrp-l@Lehigh.EDU
Subject: [60635] Antennas: 160 M Loop Rcv Antennas
Message-ID: <3.0.2.32.20000117213755.007af2a0@bosshog.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Antenna Folks,

With the QRN from the power lines that run parallel to my antenna about 150 ft away, I started looking for receive antenna ideas. Shielded loop antennas came to mind. My early references from the mid 1950s didn't hold much hope indicating the such loops were only useful for RDF.

However, the ARRL Antenna Anthology from 1978 has a couple of good articles about shielded antennas. The articles were by W7ZOI and W1FB; a couple of notable calls and worth checking out. The original article, by W1FB, was in QST, April, 1974.

The designs look like a possible solution. Nulling out the receive noise and transmitting on the full-size antenna should minimize the problem. Operation at this QTH would require switching antennas from Rcv to Xmit. Sort of like the old knife switch operation in my novice days. It'll be slow, so BK operation won't work.

Anyone have experience with shielded loop receive antennas on 160?

Fun stuff and some interesting challenges...

Chuck Carpenter, EM22cv, Point, Rains County, Texas

Date: Mon, 17 Jan 2000 21:40:48 -0600
From: "Chuck Carpenter" <w5usj@globeco.net>
To: qrp-1@Lehigh.EDU
Subject: [60636] Antennas: 40 M Loaded Shorty
Message-ID: <3.0.2.32.20000117214048.007b2870@bosshog.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Group,

Anyone interested in loaded short antennas for 40 and other bands. Check out the info in the 1978 ARRL Antenna Anthology. There's one article there about a 2-element loaded antenna about the size of a 10 M beam. Other short loaded antenna ideas there too.

Chuck Carpenter, EM22cv, Point, Rains County, Texas

Date: Mon, 17 Jan 2000 19:58:46 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [60637] Re: rotateable dipole question
Message-ID: <01bf6168\$51975af0\$7dd9fc9e@ham.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ed

A 30 ft dipole on 30m should work, especially if you can end load it a bit. I used a 40 ft wire dipole on 40m with decent results. Proportions should be about the same. Performance is down a little bit from full size, maybe a couple of dB. Pattern should be the same, though.

73, Bob N6WG

Date: Mon, 17 Jan 2000 23:11:15 -0500
From: "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>

To: <qrp-1@Lehigh.EDU>
Cc: <n4roa@mounet.com>
Subject: [60638] OPERATING: 160 Monday Night
Message-ID: <005401bf616a\$c7223a40\$0102030a@amd300>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi folks,

The 160 meter band was exceptionally quiet here in the Cincinnati area tonight.

Signals were up too. Wonder what that darn sun is doing, as yesterday the band conditions were just the opposite. I worked W8RU, Ron up in Milford, MI. We played the mWatt limbo, but no new record. Ron copied me 439 with 80 mW while I copied him at 219 with 25 mW. I heard him send 15(mW) and he confirmed it, but I was not sure. If tomorrow morning is as quiet as tonight, watch out for a new record (Dan where are you?).

Tomorrow is another day!!!

73 - Dieter (DIZ) Gentzow - WB8QYY "oo's"
Loveland, Ohio - NE suburb of Cincinnati
FPqrp#-1 DL-QRP-AG#1454 QRP-L#1998 10-X#9389 CATT#26 K2#493
<http://w3.one.net/~gentzow/wb8qyy.htm>

Date: Mon, 17 Jan 2000 22:16:21 -0600
From: "Jim Crooke" <crooke@prodigy.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60639] RS and more advanced hams--long
Message-ID: <007101bf616b\$697910c0\$b46c9cd1@crooke>

Greetings to the list from a lurker.

I just purchased a DX 398 SW recvr as a backup and was reading the manual discussing ham bands. It mentions that morse code is usually found at the lower portions of the ham bands and that the more advanced hams are usually at the upper portions of the ham bands.

Now I'm really confused. After being out of ham radio for 14 years and out of cw work for 30 years, I got back on last fall. In no small part due to this reflector and all the great advice and discussions concerning the full gamut of QRP and other topics, I started doing QRP and decided to upgrade to Extra. I have been trying to get my code up to 20 wpm before April 15 and

now I find that the more advanced hams are at the upper portions of the band where there is little code or QRP. Maybe I'm not as confused as I am scared. If the more advanced hams are at the upper portions of the band, then that means that the majority of you who are at the lower end of the bands are not as advanced as I had thought. And that really scares me because it seems that you all know your stuff better than I ever could.

Or maybe Radio Shack is wrong.

73, Jim WB HQV
Healer of Brachycephalics and other good looking creatures

Date: Mon, 17 Jan 2000 22:46:08 -0600
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-1@Lehigh.EDU>
Subject: [60640] WTB: Wilderness SST-30, SST-20 Emtech ZM-2
Message-ID: <200001180446.WAA21111@dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi all,

I'm Kicking myself for letting my SST rigs go. Would like to find a SST-30 and a SST-20.

Also looking to buy a Emtech ZM-2. Contact me direct with price and condition please.

Still have a QRP LDG Autotuner and Kantronics KT-130, 30 meter mobile transceiver for sale or trade.

Thank you,

Kelly Ellison

Date: Mon, 17 Jan 2000 20:50:40 -0800 (PST)
From: ABCQRP <w6abc@yahoo.com>
To: qrp-1@Lehigh.EDU

Subject: [60641] FS:MFJ 40 Meter SSB/CW QRP Station
Message-ID: <20000118045040.6304.qmail@web2101.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

This pair is being sold as a set. The MFJ9440X SSB/CW transceiver. With CW board installed. Works perfectly and includes mic., manual and box. The Portable Antenna Tuner is the MFJ971 and is also in excellent condition. Measures up to 200 watts and also includes a QRP range.

\$250 for both. Price new from MFJ is \$399

73,
Jack

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Date: Mon, 17 Jan 2000 21:55:33 -0700
From: "Rod, N0RC" <n0rc@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [60642] Re: List Weirdness
Message-ID: <017801bf6170\$43d49560\$9e111004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Never mind, it finally showed up (8 Hours late). Looking at the mail headers it was delayed in route. Something busted somewhere.

A thing like this makes you appreciate the simple reliable elegance of a good HF rig, and a fine Morse Code key. ;-)

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----

From: Rod Cerkoney <n0rc@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, January 17, 2000 8:09 PM
Subject: List Weirdness

> Folks:

>
> Earlier today I posted about going to Atlanticon, I never saw my
> original post mailed back to me. Yet, others did see it, I got
...

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<http://im.yahoo.com>

Date: Mon, 17 Jan 2000 23:43:13 -0500
From: "Tom H" <hybiske@generalatronics.com>
To: <chas@digizen.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [60643] Re: TGM "minibeams"
Message-ID: <030d01bf616e\$886ffa40\$246e0c18@adubn1.nj.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> The MQ-1 appears to be the successor to the old HQ-1 Hybrid Mini-Quad
> that was made and sold in the U.S. for many years. I had good results
> with mine. If the quality of the TGM version is the same (particularly
> the hi-Q end loading coils), it ought to be a good performer also. Being
> a hi-Q antenna, it is fairly sharp in resonance and should be kept away
> from other conductors. A bit tricky to adjust (pruning the end
> "spikes"). Not a lot of gain, but exhibited good front to back and front
> to side ratios.
> -72-
> Chas W3KC
>

Yes it looks like a HQ-1 Mini-Quad. I used one for a few years back in the early 80's. Back then it was a 4 band antenna. If memory serves me, it radiated equally bad in all directions on 20, but got progressively better on 15, 10, and 6. The brass spikes were tricky to adjust, and had a propensity for snapping off right at the coil, and occasionally the ceramic coil form would crack. Also if you applied too much power, the potting compound around the coils would heat up, soften and migrate to the bottom of the coil, but we don't have to worry about that one do we! Other than that, it was a FB antenna ;-)

Tom K3GM

Date: Mon, 17 Jan 2000 23:46:40 -0500
From: "K3GM" <k3gm@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60644] Re: TGM "minibeams"
Message-ID: <036401bf616f\$030226c0\$246e0c18@adubn1.nj.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> The MQ-1 appears to be the successor to the old HQ-1 Hybrid Mini-Quad
> that was made and sold in the U.S. for many years. I had good results
> with mine. If the quality of the TGM version is the same (particularly
> the hi-Q end loading coils), it ought to be a good performer also. Being
> a hi-Q antenna, it is fairly sharp in resonance and should be kept away
> from other conductors. A bit tricky to adjust (pruning the end
> "spikes"). Not a lot of gain, but exhibited good front to back and front
> to side ratios.
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> Chas W3KC

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early 80's. Back then it was a 4 band antenna. If memory serves me, it
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propensity for snapping off right at the coil, and occasionally the ceramic
coil form would crack. Also if you applied too much power, the potting
compound around the coils would heat up, soften and migrate to the bottom
of
the coil, but we don't have to worry about that one do we! Other than
that,
it was a FB antenna ;-)

Tom K3GM

Date: Mon, 17 Jan 2000 21:09:18 -0800
From: Ed Loranger <we6w@netzero.net>
To: prm@hiwaay.net, Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>
Subject: [60645] RE: Tuner ZM-2.
Message-ID: <3883F57D.1BC26111@netzero.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Richard, that's quite impressive what you've built. I was lucky in that I used the nice hole punch system at work and the front panel was almost too easy. That's when I realized I'll put some paper over the panel next time! Got some oil on it. But cleaned up ok.

The LED bridge in the ZM-2 is very nice. You will find that if your radio output impedance is 50 ohms, you'll get that light extinguished very nicely when the antenna is tuned up. With broadband rigs you may get a slight change from that and the led may only dim. I found that measurements of the reflected power using the WM-2 showed I wasn't losing much when the output impedance of the radio was 80 ohms and the LED didn't quite describe the optimum condition.

AT worse I believe there was 80 milliwatts reflected when the LED extinguished compared to where it should be at when matched. The difference in ATU settings is due to the Bridge set up for a 50 ohms input match and your rig might be 80 Ohms at that band/frequency!

Got it all figured out here. Unless of course I'm wrong :)

72/Ed

--

72/Ed we6w; AR Millennium Q's=>2479/2000 A-1 OP
<http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 AR#112 HI#64 ARCI#9397 ARS#275 QRPL#1068 NC#2227

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Date: Mon, 17 Jan 2000 23:54:09 -0600
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-l@Lehigh.EDU>
Subject: [60646] ArkieCon and VE3DNL Marker/Generator
Message-ID: <003301bf6178\$715c2fe0\$1c9b66a6@w5jay>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings QRP-L Group!

I thought I would give an update status concerning the VE3DNL Marker/Generator Kit. First, the kit is still being produced by the Fort Smith QRP Group. This is a fund raiser for the QRP Forum this spring called ArkieCon which will be held in Fort Smith, AR, April 8, 2000. This kit project was the brain child of Doug Hendricks and Chuck Adams, to help offset future QRP Forum expenses. Chuck and Doug also provided many parts to get the project going and also to keep it going. I want to publicly thank both of them for all of their help and support. If you are new to QRP and want to find out more on the VE3DNL Marker/Generator kit see the NorCal web-page at <http://fix.net/norcal.html> I want to thank Glen Leinweber, VE3DNL, for the novel marker/generator circuit. More on Glen in a minute. I want to thank everyone who purchased a VE3DNL Marker/Generator Kit. Your support enabled Fort Smith to hold the largest QRP Forum between Dallas and Dayton. Again my sincere Thanks to all of you!!!!

Some of you already know who the guest speakers are. I am excited to repeat them again. They are: CHUCK ADAMS, JIM DUFFY, DAVID GAUDING, PAUL HARDEN, DOUG HENDRICKS, GLENN LEINWEBER.

I am especially excited about having Glenn as one of our guest speakers. Glenn is one of the main contributors in the Elmer 101 Series. I'm not positive but I think this is the first time Glenn has been a guest speaker in the States. We are certainly honored to have him come to Fort Smith, AR.

I am also excited to have Mr. Saint Louis himself, David Gauding. Dave is one of the most ultimate QRP operators I have ever met. A few years back while attending FIDM, I saw Dave set up a full size 40m vertical complete with radials in less than 10 minutes. The last time I bumped into him on the air was last week on 160m with his Saint Louis Doublet. He was doing his usual on the air antenna testing and was as strong as anyone on the band with 1 watt. I tried to get him to go lower in power, but he said his watt meter is calibrated at 1 and 5 watts. What a shame, I think we could have gone into the single digit milliwatt range that night.

We are also excited about having antenna guru Jim Duffy come to the Fort, but please DON'T ask Jim about PVC material and microwave ovens unless you are prepared to laugh yourself to death. Paul Harden, as everyone knows, always has GREAT Forums on propagation. And his Desert Rat Troubleshooting Series is second to none. If you have the time to catch him alone, he has many neat stories about submarines and where he works at; the Big Earth Array in Sorccro, NM. Both Jim and Paul are two of the most interesting people I have ever talked to.

Chuck Adams, the Manhattan expert is another ultimate Elmer. Last year Chuck came to Fort Smith from Dallas through an ice storm to help with our very first QRP Forum here in the Fort. He and Doug Hendricks allowed us to have a surprisingly successful forum with over 75 attendees. This was a fantastic turn out considering we had many cancellations due to the snow. We have moved the date out later in the year, hoping to have better weather (although the weather has been great this year) and to prevent conflict with other Hamfests.

Last, but not in anyway least, in this bunch of mighty fine men would be Mr. NorCal himself, Doug Hendricks. I'm not sure what Doug is going to talk about, it really doesn't matter, this event would not be complete without him. Doug is the reason clubs like Ft. Smith, New Jersey, etc., are thriving. The great news is Doug's health is continuing to improve and this will be one of Doug's first outings since the scare he gave us last fall. Doug is my inspiration and motivator by his constant nagging. I wouldn't feel like doing any of this without Doug and I'm tickled he is doing so well!

Nothing is set in stone about the speakers subjects but I wanted to get the word out so you could mark your calendar and make arrangements to attend. I also wanted to thank all involved. There will be future updates as the event approaches.

For more information about ArkieCon, lodging, directions... check out <http://www.qsl.net/fsaarc/>

See you in April.

73 de w5jay..

Date: Tue, 18 Jan 2000 00:55:12 -0500
From: "Don Wilhelm" <w3fpr@arrl.net>
To: <crooke@prodigy.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [60647] Re: RS and more advanced hams--long
Message-ID: <008c01bf6178\$99d7f4e0\$37b17ed8@dbw-11-main>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If that is a quote from the RS manual - It seems they think "advanced" hams are those who use a microphone.

I think RS has a lot to learn.

73,

Don Wilhelm -Chapel Hill, NC
W3FPR QRP-L # 485 K2 SN 0020

-----Original Message-----

From: Jim Crooke <crooke@prodigy.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Monday, January 17, 2000 11:28 PM
Subject: RS and more advanced hams--long

>Greetings to the list from a lurker.

>

>I just purchased a DX 398 SW recvr as a backup and was reading the manual
>discussing ham bands. It mentions that morse code is usually found at the
>lower portions of the ham bands and that the more advanced hams are usually
>at the upper portions of the ham bands.

> SNIP

Date: Mon, 17 Jan 2000 22:12:00 -0800 (PST)
From: ABCQRP <w6abc@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [60648] QRP Swap Board Finale
Message-ID: <20000118061200.21435.qmail@web2106.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi All,

The input has been polite and informative. I agree with the majority here and will continue to enjoy the barter aspect of For Sale/Swap here. Part of the fun, as many have expressed is to enjoy the richness of this group inclusive of all aspects of the low power

hobby. This of course includes looking for goodies as they appear among all the rest of the information.

Once again the liveliness of the group surfaces in a positive and active manner. I love it!

73,
Jack W6ABC

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Date: Tue, 18 Jan 2000 06:37:23 GMT
From: "Bill Todd" <zapzap73@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [60649] FOX Log for 1/14/00 (N7MFB)
Message-ID: <20000118063724.25401.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hello Group -

As promised, here is my complete FOX Log from last Thursday's FOX Hunt.
Thanks for being part of the hunt!

CUL, Bill-N7MFB

02:00:00	GMT	WE6W	559	CA	ED	1068	
02:02:11	GMT	AB7CE		569	MT	ROY	1494
02:03:11	GMT	KU7Y	569	NV	RON		176
02:05:13	GMT	N7RR	579	WA	BRUCE		1688
02:06:21	GMT	W7ILW		579	AZ	HOWARD	2010
02:07:20	GMT	VA7NT		589	BC	PAUL	20
02:08:47	GMT	NQ7X	579	AZ	FLOYD		343
02:09:17	GMT	VE6EWN		579	AB	EARL	1076
02:10:08	GMT	N6XU	569	CA	STAN	66	
02:11:33	GMT	K0EVZ		579	ND	DOC	861
02:12:48	GMT	K7RE	579	AZ	BRIAN		404
02:14:42	GMT	N6WG	579	CA	BOB	26	
02:15:11	GMT	KI7MN		579	AZ	BOB	271
02:17:04	GMT	NK6A	569	CA	DON	1517	
02:18:26	GMT	K1MG	569	CA	MIKE	614	
02:19:47	GMT	KA4BM		559	FL	JIM	5W
02:21:18	GMT	N7GS	579	MT	MAL	815	
02:23:12	GMT	N5TW	559	TX	TOM	1474	
02:24:03	GMT	N7CQR		579	OR	DAN	502
02:26:27	GMT	K0YWD		569	MT	SKIP	2003

02:27:40	GMT	N0TU	569	TX	STEVE	911	
02:28:00	GMT	NA6E	579	CA	MARY	1779	
02:29:06	GMT	N1LN	589	TX	BRUCE	2049	
02:31:48	GMT	W4NJK		559	CA CHARLIE		2075
02:33:37	GMT	K7TQ	569	ID	RANDY	102	
02:36:46	GMT	AB5UA		559	OK CLIF	478	
02:37:13	GMT	VE5RC		559	SK BRUCE		886
02:40:59	GMT	K5GT	559	OK	LEN	5W	
02:41:29	GMT	K6TM	579	CA	RICH	1092	
02:47:39	GMT	W0CH	559	MO	DAVE	618	
02:51:14	GMT	AC6UV		559	CA GORDY		1881
02:52:31	GMT	N0EA	579	CO	WAYNE	1058	
02:53:16	GMT	KI0II		559	CO RON	928	
02:56:50	GMT	N7KT	559	AZ	ROGER	62	
02:57:17	GMT	N0AR	559	MN	SCOTT	1455	
03:00:49	GMT	N0DT	579	MO	DAN	1004	
03:18:43	GMT	KT5X	559	NM	FRED	5W	
03:23:45	GMT	N5LU	569	TN	CONARD		2009
03:27:03	GMT	N4ROA		559	VA DAN	970	
03:44:21	GMT	NV4V	449	KY	PETE	1721	
03:55:27	GMT	W8SFF		339	MI STEVE		1288
03:56:04	GMT	AF5Z	559	TX	BOB	984	

1/14/00 FOX LOG of N7MFB Bill Todd Bay Center, WA
 Freq: 7042 Rig: Kenwood 820s @ 5 watts
 Ants: Dipole & Dble Extended Zepp

(Shameless plug for my updated Web Site)
<http://www.techline.com/~wptodd>

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 Date: Tue, 18 Jan 2000 06:37:46 -0600
 From: "Jerry Scherkenbach" <jerrys@execpc.com>
 To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
 Subject: [60650] FYBO Contest - 2/5/2000 - are you operating?
 Message-ID: <000b01bf61b0\$d3c4ed60\$1a86cfa9@Pjerrys>

The QRP Cheeseheads in Wisconsin are planning an outing for our first FYBO Contest (Freeze Your B.... Off). Actually, only 2 of the 3 of us are going, NK9G, Rick, and myself. AE9K, Brian, will be on a cruise at that time, can you believe it? The CALL will be NQ9RP.

We would like to know if you plan on operating. Please send me an email. I guess we want to make sure there will be enough activity to keep us

moving.....gotta keep moving to stay warm you know.

We're planning on going out in a popup camper. That could change if we get any big time snow by then, but so far so good. The site we have chosen should allow us to put up some wire antennas in the trees. We're currently planning on using a G5RV for 80/40, delta loops on 20 and 15, and who knows on 10 mtrs (probably the G5RV. For radios.....its looking like battery operation with a Sierra and an Argonaut 515.

We're looking forward to it.....how about you ?

72

Jerry N9AW.....

President, QRP Cheeseheads ARC

Date: Tue, 18 Jan 2000 01:53:56 -0500
From: "Ed Tanton" <n4xy@att.net>
To: <klh@nsgqs.cb.lucent.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60651] RE: HELP on UNK SMT transistors
Message-ID: <NBBBJDEEIFDDANGEGHLBOEFCIHAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Kaye... unfortunately, SMT components are often labeled with a more-or-less unique (to the batch) label intended only to help in sorting them at assembly time (actually used, normally, only in case of a mix-up.) IF they do NOT have small metal tabs opposite their 3 lower pins; and are therefore, two on one side (think of it as the bottom); and one on top; then they are signal transistors-as opposed to power transistors. Your best bet to help generally ID them, is to use a good digital DVM, and figure out which pin is which, and whether you have an NPN or PNP transistor. YOU must be conscious of whether your DVM leads when in the OHMS position, are red-POS or not. Easiest way would be to do this with at known transistor, or use a second voltmeter. All the rest of the usual methods for testing General Purpose transistors, apply to SMTs.

As for determining their best application-capability, I would compare one or two of them to either a 2N3904 or a 2N2222A-in an actual application if possible-and see how they perform. They COULD be FETs-although the odds are they are 'regular' General Purpose/Small Signal transistors. Those same odds would (somewhat) predict an NPN transistor, and a NON-RF transistor-e.g. a

switching/DC amp/non-RF transistor LIKE the two mentioned above, MORE OR LESS. That probably limits them (if no tab) to 500mA or so MAX, and less than 7MHz for RF apps. Think of them as 200mW transistors. BUT you never know... that's why you should 1st check and determine what they are; and then secondly, make some comparisons.

As for pinout, I would try first the following: orient the transistor with 2 pins at bottom, and one pin at the top, sitting on it's pin-legs, so-to-speak (pins down). IF it follows the most likely pinout, the base is now the lower left pin; the emitter is the lower right pin; and the collector is the upper pin. That ought to get you going.

By the way, with all the work done here on QRP-L and elsewhere using 2N2222As for certain RF apps, I have to say that they will work up to SOME frequency... but their internal noise makes them better suited for 40M & below... and better yet: audio and DC switching applications. What will work vs. what is best for a given app can differ significantly. So, try them and see what they can do... like I said, you never know!

Ed Tanton N4XY <n4xy@arrl.net>

Website: www.qsl.net/n4xy

"Do what's right. You'll please some people, and amaze everyone else."

Mark Twain

Date: Mon, 17 Jan 2000 23:17:25 -0800 (PST)
From: Jeff Furman <jfurman@ocs.net>
To: mcintos@basf-corp.com, qrp-l@lehigh.edu
Subject: [60652] mps901 pinout and hFE
Message-ID: <Pine.LNX.4.04.10001172254230.3661-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I looked up the mps901 in a 1995 motorola rf transistor databook: the package is case 29-04 style 2 in motorola language-- it is an epoxy to-92 shape case with the pins, left to right, flat side facing up, bottom (pins facing you) view, as:
1. base, 2. emitter, 3. collector. This is different from the typical 2N3904, 2N3906, 2N4401, etc which is 1. emitter, 2. base, 3. collector. The hFE for the mps901 from the data sheet, is 30 min, 80 typ., 200 max., at Ic=5ma. and Vce=5vdc. I suspect your meter tests transistors at some other operating point, however, these will give you a hint of what to expect. I didn't get any hits searching either motorola or on semi. web

For my 8ft (plus a bit) 20m dipole, worked G to VE with QRP at 4ft agl.
I am surprised folk didn't remember where the file was, been on this site
for years!

Frank G3YCC

QRP Web Site <http://www.g3ycc.karoo.net/>

-----Original Message-----

From: Edward A Kwik jr <eakwikjr@hti.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Date: 18 January 2000 01:27

Subject: rotateable dipole question

>This thread has caught my interest. I have an old ARRL Antenna Book
>dated 1968. On page 209 and 210 it shows the antenna with the two, 10
>foot lengths of electrical conduit and center loading coil. The text
>also talks about mods to the basic design for 10 and 20 meters. What I
>would like is something for 30 meters. Would anybody know how practical
>a short dipole say 30 feet overall would be? What would the loading
>coil be? BTW I will be getting a new computer in a couple of days.
>Anybody got an old copy of antenna modeling software they would like to
>sell?

>

>Ed Kwik AB8DF

>

>

Date: Tue, 18 Jan 2000 05:21:16 -0500

From: Fred Lesnick <flesnick@tbaytel.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [60655] 160 metres

Message-ID: <38843E9B.92320751@tbaytel.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Just got home from working some overtime at work, and checking my email
and listening to 1.811. Heard W0A0A calling cq at 1012z (Jan
18/2000). Tried to answer back... Nice signal, 549, and my noise level is
sitting at a three, pretty quiet. Had about 12 inches of snow fall
tonight, and the moon is now trying to show itself from under the
clouds. Hearing lots of VK's on 40 metres as well...

73

Fred

VE3FAL

Date: Tue, 18 Jan 2000 02:35:14 -0800
From: "Tom Scott" <tscott@eni.net>
To: "'qrp-l Reflector'" <qrp-l@Lehigh.EDU>, "'Antennas Reflector List'" <antennas@qth.net>
Subject: [60656] ? antenna and matcher for QRP student rigs...
Message-ID: <000501bf619f\$babce860\$44553604@wyle.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am going to be helping a class of high school students get their ham license and build a 2 Watt 40m QRP rig. We are planning to use the SW+40 for the radio. There are many things not fully worked out yet, among them what will the students do for an antenna at home.

In mulling over the choice of antenna and related hardware, and considering that I have to do everything I can to minimize costs, while trying to preserve good performance. I've been considering a 40m dipole of some 24 gauge hookup wire, or maybe a folded dipole for better match, either way fed with 300 ohm twinlead. This got me to thinking that I really don't need to use coax or a coax connector at all. Perhaps what I ought to do is figure out a small effective toroid balun and convert to balanced line right at the rig, add a small several hundred pF tuning cap (something like is used with the Rainbow tuner), and use banana jacks or speaker wire terminals to attach the twinlead to the radios.

Bear in mind that these rigs have a relatively narrow VFO range on a single band anyway, so maybe we don't need much tuning, just enough to compensate for different length feedlines and such. Could I get by with just a capacitor in this case, or are we going to need some adjustable inductance as well?

Anyone care to take a crack at specs for a suitable balun for this purpose?

Please no flames anti balanced line. A dipole is inherently balanced, twinlead is cheaper and lower loss than coax. My home rig uses a multi-band dipole with balanced feed line fed by a Johnson Matchbox which really works FB 10-80m

Any ideas?

(Cross posting to both Antenna list and QRP list)

- Tom

?Tom Scott - Wyle Electronics - KD7DMH
10300 SW Nimbus Ave #PB, Portland, OR 97223
503-603-1931 - Tel 503-684-6620 - Fax
503-703-2032 - Cell

Date: Tue, 18 Jan 2000 11:46:13 +0000
From: "David Hurley,n2zhy" <n2zhy@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>, NJQRP <njqrp@njqrp.org>
Subject: [60657] Hawaii Hamfest Needs QRP Demo
Message-ID: <38845285.37DA754@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This came to me by way of a fellow Red Cross volunteer and QRP'r.
Anyone heading toward Hawaii and want to give a QRP demo?

Wish I was the fortunate one! Best I can do is forward the NJQRP page
with the Slide Presentation info.

Reply to Stuart at <stumanchu@webtv.net>

David Hurley,n2zhy
Princeton,NJ

=====
Subject:

Re: Big Island Hamfest/fleaMarket
Date:
Mon, 17 Jan 2000 15:07:28 -1000 (HST)
From:
stumanchu@webtv.net (Stuart Johnston)
To:
kh6b@juno.com (Dean W Manley)
CC:
w6ors@juno.com, n2zhy@amsat.org, kh6afq@juno.com

Hello Dean, I sure would like to have a qrp demonstration at the event
in Waimea.Do you know of anyone who would be interested in promoting

qrp, by putting on a demo. If you may know of such a person or persons,
please let me know, ok. Thanks, Stuart

Date: Tue, 18 Jan 2000 06:37:59 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <crooke@prodigy.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [60658] Re: RS and more advanced hams--long
Message-ID: <004601bf61aa\$0db89b40\$c844fea9@dads-hp>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You know, I'd almost think this is a troll just to see what it
brings out of the woodwork!

Mike

>Greetings to the list from a lurker.
>
>I just purchased a DX 398 SW recvr as a backup and was reading the manual
>discussing ham bands. It mentions that morse code is usually found at the
>lower portions of the ham bands and that the more advanced hams are usually
>at the upper portions of the ham bands.
>Now I'm really confused. After being out of ham radio for 14 years and out
>of cw work for 30 years, I got back on last fall. In no small part due to
>this reflector and all the great advice and discussions concerning the full
>gamut of QRP and other topics, I started doing QRP and decided to upgrade
>to
>Extra. I have been trying to get my code up to 20 wpm before April 15 and
>now I find that the more advanced hams are at the upper portions of the
>band
>where there is little code or QRP. Maybe I'm not as confused as I am
>scared. If the more advanced hams are at the upper portions of the band,
>then that means that the majority of you who are at the lower end of the
>bands are not as advanced as I had thought. And that really scares me
>because it seems that you all know your stuff better than I ever could.
>
>
>
>
>Or maybe Radio Shack is wrong.
>
>
>73, Jim WB HQV
>Healer of Brachycephalics and other good looking creatures

>
>
>

Date: Tue, 18 Jan 2000 07:44:56 -0400
From: Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
To: qrp-l@Lehigh.EDU
Subject: [60659] Help! Tektronix Oscope 503
Message-ID: <v03110700b4a9ff08aae8@[132.235.81.58]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

I procured a Tektronix 503 Oscope over the weekend at my local junk yard. The thing is physcially perfect, but there doesn't seem to be any HV. But, at \$5.00, I didn't haggle any!

1. Anyone know the specs of the thing? Bandwidth, etc?

2. Anyone have a schematic that I can get a copy of? On a webpage somewhere? I can take attachments on email or I'd be glad to pay any costs of copying, postage, etc.

Thanks!

NS80
Greg Weinfurtner
9411 Kitty Lane
Athens, OH 45701

weinfurt@oak.cats.ohiou.edu

gweinfurt1@ohiou.edu

Date: Tue, 18 Jan 2000 07:17:35 -0600
From: markmilburn <markmilburn@netzero.net>
To: QRP-L <qrp-l@lehigh.edu>

Subject: [60660] Iowa QRP Net
Message-ID: <388467EF.B832BE46@netzero.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Come join the Iowa QRP net on Wednesday night. We're still using two frequencies - at 7:00 PM CST the net will convene on or about 7.110, and after checkins and a goround for comments, we will reconvene on 3.715 and finish there.

All are welcome and the skip is unpredictable, so give us a call.

72 Mark, KQ0I

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<http://www.netzero.net/download/index.html>

Date: Tue, 18 Jan 2000 05:46:31 -0800 (PST)
From: Curt Milton <wb8yyy@yahoo.com>
To: crooke@prodigy.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60661] Re: RS and more advanced hams--long
Message-ID: <20000118134631.26195.qmail@web2006.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Jim,

good to have you currently in ham radio. what RS had wrote was probably even poor at the time, but they were expressing a generality. back then not as many hams had SSB ... and the novices had no phone priviledges. maybe they were trying to steer new radio enthusiasts to CW because that is where everyone had to start.

as for where the "more advanced hams" are - its everywhere - every mode - every power level. too often we tend to be too judgemental - and too many of us have a narrow view of ham radio. as I tend to relate to hams with "low end" stations like mine and those who like to experiment, it doesn't mean i should think of hams who participate in other pursuits as "less advanced." we need to be glad for the priviledges we all have - and hopefully find more

understanding amongst hams with different interests.

take care and enjoy the hobby,

Curt WB8YYY QRP-L # 2115

Do You Yahoo!?

Talk to your friends online with Yahoo! Messenger.

<http://im.yahoo.com>

Date: Tue, 18 Jan 2000 08:54:25 -0500

From: "White, Joseph H." <jhw@rti.org>

To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>

Subject: [60662] RE: Portable CD-Player/Cassette Adapter

Message-ID: <039882B885F5D21187C700902761F09757156C@cscnts9.rti.org>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

I used one of these things for a while in my truck to amplify the output of my sierra. It's nice because it allowed me to play the sierra through a speaker without having to put an external amplified speaker in the vehicle. It also kept me legal since I'm told that some states I drive in prohibit use of headphones.

However, when I tried to use the same gadget with the Sony aftermarket radio/CD changer system in a newer vehicle, it doesn't work. When I insert it, I hear the tape deck advance the tape in one direction, then reverse it, then spit it out. Apparently it thinks the tape is bad because it doesn't sense the appropriate relationship between movement of the two hubs or the capstan or something. Anyone found a workaround for this? Are there "improved" models that do a better job of fooling the tape deck?

Thanks and 72,

joe, WA4GIR

jhw@rti.org

Joseph H. White Phone (919) 541-6566

Research Triangle Institute Fax (919) 541-6965

PO Box 12194

Research Triangle Park, NC 27709

Date: Tue, 18 Jan 2000 09:00:40 EST

From: PaulKB8N@aol.com

To: tscott@eni.net, qrp-1@lehigh.edu, antennas@qth.net
Subject: [60663] Re: [Antennas] ? antenna and matcher for QRP student rigs...
Message-ID: <54.863e65.25b5cc08@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Tom,

Since this is a monoband transceiver, may I suggest a folded dipole with a "perfect" 6:1 balun. Once your transceiver is built, buy three 100 ohm, 1 watt resistors. Wind a standard 4:1 balun and test it until you get a 1:1 SWR against a 200 ohm load, then try tapping it until you get a 1:1 against a 300 ohm dummy load. Now you can cut a folded dipole out of twinlead and trim it for 1:1 SWR and have perfect efficiency!

Try between 8 and 10 bifilar turns around a "red" torroidal core, tap about two turns in for 300 ohms.

Paul K5AF

Date: Tue, 18 Jan 2000 10:09:48 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: "'cw@qth.net'" <cw@qth.net>, QRP Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60664] CW Traffic Nets
Message-ID: <3884823C.CF267A1B@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang:

Is there a URL that will take me to an up to date list of all the CW traffic nets, be it fast or slow nets....A few years back I used to be a regular on many of these nets on 80 metres. But between work, and some moves, I have fallen away from that, but would like to get back with them.

Any help would be appreciated.

73/72

Fred

VE3FAL

Thunder Bay, Ontario

Date: Tue, 18 Jan 2000 07:20:18 -0800
From: "Ward Hill, N1IE" <w_hill@ns.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "Elecraft Reflector" <elecraft@qth.net>
Subject: [60665] Blocking Diode Help
Message-ID: <000c01bf61c7\$ca9c72a0\$620f9fcf@0zpu5>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

I am building up a battery pack which will be solar powered for Field Day. I want to have two batteries included in the pack, one as the main battery (12 volt@20 AH gel cell) for the K2 and a accessory battery (12volt@4 AH) for LED lighting, palm top logging, etc. I wish to use some diodes to isolate the two batteries. As you can guess I wish to minimize the voltage drop preceeding the batteries.

Can anyone help me out with which type of diode to use? Since the diodes would be in circuit before the battery only the charging current would be through the diodes. I am using two of the Electronic Goldmine solar panels which at the most would be charging at 1 amp.

Thanks in advance,
Ward Hill, N1IE
EX China Laker (Peace broke out)
EX Vandenberg AFB Space Shuttle (Challenger accident)
K2 S/N 614, Original Knob
Engineer KOVR-TV
www.kovr13.com

Date: Tue, 18 Jan 2000 09:38:32 -0600
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
To: <w_hill@ns.net>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [60666] RE: Blocking Diode Help
Message-ID: <000001bf61ca\$138562e0\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think you will get the "standard" .6v drop or so no matter what kind of diode you use that is sufficient to handle the charge current through it. I have a similar setup with one charger connected to two batteries that are

"separate." I use half of a bridge rectifier to isolate them. I had to adjust the charger so that the batteries still receive the correct charging voltage. The problem is that if you have an "automatic" charger circuit it won't "see" the batteries other than to feel the current being drawn by the charging process. If your charger monitors the voltage level of the battery to regulate the charge the diodes will cause the charger to be blind since current flows only one way through a diode. If you would be using regular lead/acid (liquid electrolyte) batteries that can forgive a bit of overcharge then you'd be OK. But since you are used gel-cells watch that battery voltage, the charger won't.

73/

Kevin

I am Voltohm of Borg, resistance is E/I , power is EI , you will be attenuated!

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU

> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of

> Ward Hill, N1IE

> Sent: Tuesday, January 18, 2000 9:20 AM

> To: Low Power Amateur Radio Discussion

> Subject: Blocking Diode Help

>

>

> Hi All,

>

> I am building up a battery pack which will be solar powered

> for Field Day.

> I want to have two batteries included in the pack, one as the

> main battery

> (12 volt@20 AH gel cell) for the K2 and a accessory battery

> (12volt@4 AH)

> for LED lighting, palm top logging, etc. I wish to use some diodes to

> isolate the two batteries. As you can guess I wish to

> minimize the voltage

> drop preceeding the batteries.

>

> Can anyone help me out with which type of diode to use? Since

> the diodes

> would be in circuit before the battery only the charging

> current would be

> through the diodes. I am using two of the Electronic

> Goldmine solar panels

> which at the most would be charging at 1 amp.

>

> Thanks in advance,

> Ward Hill, N1IE

> EX China Laker (Peace broke out)
> EX Vandenberg AFB Space Shuttle (Challenger accident)
> K2 S/N 614, Original Knob
> Engineer KOVR-TV
> www.kovr13.com
>
>

Date: Tue, 18 Jan 2000 10:50:29 -0500
From: hattonte@gdls.com
To: qrp-1@Lehigh.EDU
Subject: [60667] Solder Lugs
Message-ID: <0FE97C37C3.879FCE5D-0N8525686A.005656F1@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Last week, I posted:

> Anyone know of a source of those good ole fashion solder lugs that you
can
> solder (ie, not crimp)?

and I got a lot of replies.
The consensus seems to be: www.hhsmith.com makes them, and they are
retailed by

Mouser at www.mouser.com
Dan's at www.fix.net/dans

Tnx for the bandwidth

Terry KI8JA

Date: Tue, 18 Jan 2000 08:17:16 -0800
From: trackerdan@earthlink.net
To: qrp-1@Lehigh.EDU
Cc: trackerdan@earthlink.net
Subject: [60668] Circuit board layout hints
Message-ID: <18010018.29829@192.91.146.34>
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am trying to build a circuit for an audio distribution box that I found in the handbook. It's pretty simple, just a quad op-amp IC that takes the audio from the HF rig and gives me 4 buffered outputs that I can send to the computer sound card, packet box, etc. My problem is... how do I decide where to wire the components on the circuit board? I am just using perf board, where each hole has a solder pad, then making the connections on the bottom with the bent-over wire leads from the components. I am finding that there must be some logical way to lay out the board, so that, for example, I don't need to wire Vcc to several places, or that the grounded ends of components end up close to each other, etc. Does anyone have any hints about laying out a circuit board? Is it easier to design it on computer first, or even on paper, or just to wing it and start soldering? I would like the board to end up looking half decent, ie no "component balls", while using space efficiently, etc. I would appreciate any suggestions!!

TIA,

Dan W1RDB

Merrimack, NH

-5F and 40 MPH winds keep us huddled around the soldering iron!

Sent using MailStart.com (<http://MailStart.Com/welcome.html>)
The FREE way to access your mailbox via any web browser, anywhere!

Date: Tue, 18 Jan 2000 11:31:21 -0500
From: "Everhart, Joseph @ CSE" <jeverhar@mail.cse.l-3com.com>
To: "'w5usj@globeco.net'" <w5usj@globeco.net>
Cc: "'qrpl'" <qrpl-1@lehigh.edu>
Subject: [60669] Re: Antennas: 160 M Loop Rcv Antennas
Message-ID: <B9A5540E55F7D211BE830000D11AD11E333A2D@l3c-xchg-cse.mail.cse.l-3com.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Chuck,

I don't have experience with receiving loops on 160, but have used them professionally at 1/10 the frequency in an LF relay network.

They can work quite well to get rid of electrical noise. You don't even

necessarily need a shielded loop, often a balanced one works as well.

In our system we used a 4-foot tuned loop with excellent balance that had an electrical height of 16 mm! With a low-noise front end the background noise was high enough that a larger antenna would not improve the SNR.

One thing that proved quite important however was coupling to the transmit antenna. A nearby resonant transmit antenna picked up lots of noise and re-radiated it into the loop, overcoming the latter's noise cancelling properties. It will also give you a stronger received signal but the extra noise worsens the SNR. I've not seen this mentioned in the amateur literature though I'm sure that it applies as well at 1.8 Mhz as at 170 kHz!

You may not like the fix - detune the transmit antenna while receiving. However I noted as much as a 20 dB drop in electrical noise pickup by using this simple expedient.

The other fix is to locate the receive antenna far enough away that it does not see the re-radiation.

You can determine if you have the reradiation by simple monitoring the receive loop while detuning the transmit antenna. If it makes no difference, no problem. If it does show a difference you may need to take some evasive action.

Good luck and...

72/73,

Joe E., N2CX

<SNIP>

>Anyone have experience with shielded loop receive antennas on 160?

<SNIP>

Chuck Carpenter, EM22cv, Point, Rains County, Texas

Date: Tue, 18 Jan 2000 11:49:49 -0500

From: "Tom Hybiske" <hybiske@generalatronics.com>

To: <trackerdan@earthlink.net>, "Low Power Amateur Radio Discussion" <grp-

l@Lehigh.EDU>
Subject: [60670] Re: Circuit board layout hints
Message-ID: <002601bf61d4\$09181f00\$7368f326@GACNT>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Hi Dan,

This is a question's right up my alley, as I do this for a living. I would make a simple schematic first, then start locating components on your board as they relate to each other. Try to keep components oriented in one direction if possible. I would also create a VCC & Ground bus out of wire & feed your components off of it. This can be made for instance as a horizontal main with vertical drops for each row of parts. Leave the vertical drops unterminated to prevent loops. You can maybe run VCC on top, with the ground bus on the other side rotated 90 to prevent coupling. As we say in the industry "placement is everything".

7 3,

Tom K3GM
http://members.home.com/biskit218/thomas_j.htm

>
> I am trying to build a circuit for an audio distribution box
> that I found in the handbook. It's pretty simple, just a quad
> op-amp IC that takes the audio from the HF rig and gives me 4
> buffered outputs that I can send to the computer sound card,
> packet box, etc. My problem is... how do I decide where to wire
> the components on the circuit board? I am just using perf board,
> where each hole has a solder pad, then making the connections
> on the bottom with the bent-over wire leads from the components.
> I am finding that there must be some logical way to lay out the
> board, so that, for example, I don't need to wire Vcc to several
> places, or that the grounded ends of components end up close
> to each other, etc. Does anyone have any hints about laying out
> a circuit board? Is it easier to design it on computer first,
> or even on paper, or just to wing it and start soldering? I would
> like the board to end up looking half decent, ie no "component
> balls", while using space efficiently, etc. I would appreciate
> any suggestions!!
>
> TIA,
>
> Dan W1RDB

> Merrimack, NH
> -5F and 40 MPH winds keep us huddled around the soldering iron!
>
> -----
> Sent using MailStart.com (<http://MailStart.Com/welcome.html>)
> The FREE way to access your mailbox via any web browser, anywhere!

Date: Tue, 18 Jan 2000 09:08:43 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: "Ward Hill, N1IE" <w_hill@ns.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60671] Re: Blocking Diode Help
Message-ID: <Pine.GSO.4.10.10001180845570.11215-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Ward,

Here at work we use one 3 amp solar panel to keep 2, 120 AH gel cells charged.

The batteries are isolated from each other with diodes. This prevents one battery causing the other to discharge.

Before doing this, if one cell in one battery went bad, both batteries would fail and the system went down. This would require a trip in a helicopter to fix the problem. That's at least \$1500. Not something you really want to do very often!

Each battery is fed from the charge regulator through a diode. The regulator is adjusted to get the proper charge level to the batteries.

The regulators measure the temp of the batteries with a small prob. The temp range from summer to winter will be from well below zero F to over 120 F. More current is used at the start of the charge cycle if the temp is low. These regulators have done a great job for us. (Trade name is something like ASA and the cost is about \$60).

Then each battery is connected to the load through another diode.

This gives us a .6 volt drop but that's easy to live with

in our example and has saved many helicopter trips!

However, in the 7 years that we have been using real regulators and not just home brew voltage limiters we have never lost a battrey!

The diodes we use are NTE156A.

1000v
3A
200A surge

Can't remember the more common number....something like 2N4004 or something.

Hope this helps,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Tue, 18 Jan 2000 17:24:49 +0000
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [60672] Solar Flare?
Message-ID: <20000118.172452.-151507.0.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

At 1655Z/18Jan'2000 the noise level on 10, 6 and 2 meters jumped drastically. As of now (1721Z) the 2 Meter noise has dropped back to normal, hte 6 Meter is about an S-5, and sounds like ocean waves rising and falling and the 10Meter band is buried in an S-8 hiss.

No signals other than the NQ2RP/B beacon are audible on 10 M

The last time I heard anything like this was at the onset of a BIG solar flare.

Someone on the DX Cluster just asks "What happened?"

72/73, Keith, WB2VU0, 100% QRP from the Depths of the Great Bergen Swamp
My night light runs more power than my Rig!!!

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 18 Jan 2000 11:39:22 -0600

From: "Joseph Spencer" <kk5na@quadj.com>

To: <jerrys@execpc.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [60673] Re: FYBO Contest - 2/5/2000 - are you operating?

Message-ID: <004e01bf61da\$f4a91630\$0902060a@tccd.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Jerry and all,

The RACC group(the mobile arm of the NORTEX QRP Club) will activate K5RAC
for

F.Y.B.O. here in Arlington, Texas.

72 Joe KK5NA

K5RAC Radio Active Camping and Contesting Club <http://www.k5rac.org/>

----- Original Message -----

From: Jerry Scherkenbach <jerrys@execpc.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, January 18, 2000 6:37 AM

Subject: FYBO Contest - 2/5/2000 - are you operating?

> The QRP Cheeseheads in Wisconsin are planning an outing for our first FYBO
> Contest (Freeze Your B.... Off). Actually, only 2 of the 3 of us are
going,

> NK9G, Rick, and myself. AE9K, Brian, will be on a cruise at that time,
can

> you believe it? The CALL will be NQ9RP.

>

> We would like to know if you plan on operating. Please send me an email.

> I guess we want to make sure there will be enough activity to keep us

> moving.....gotta keep moving to stay warm you know.
>
> We're planning on going out in a popup camper. That could change if we
get
> any big time snow by then, but so far so good. The site we have chosen
> should allow us to put up some wire antennas in the trees. We're
currently
> planning on using a G5RV for 80/40, delta loops on 20 and 15, and who
knows
> on 10 mtrs (probably the G5RV. For radios.....its looking like battery
> operation with a Sierra and an Argonaut 515.
>
> We're looking forward to it.....how about you ?
>
> 72
> Jerry N9AW.....
> President, QRP Cheeseheads ARC
>
>
>

Date: Tue, 18 Jan 2000 09:54:01 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: "Ward Hill, N1IE" <w_hill@ns.net>, "QRP-L" <qrp-l@Lehigh.EDU>, "Elecraft
Reflector" <elecraft@qth.net>
Subject: [60674] Re: [Elecraft] Blocking Diode Help
Message-ID: <01bf61dd\$00ac1ed0\$85defc9e@ham.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ward

I think the best you can do in a low drop diode is get some of the same kind
used in the power input circuit of the K2. Wayne and Eric worked hard to
find a low drop diode that would also handle the current.

73, Bob N6WG

-----Original Message-----

From: Ward Hill, N1IE <w_hill@ns.net>
To: QRP-L <qrp-l@Lehigh.EDU>; Elecraft Reflector <elecraft@qth.net>
Date: Tuesday, January 18, 2000 7:25 AM
Subject: [Elecraft] Blocking Diode Help

>Hi All,

>
>I am building up a battery pack which will be solar powered for Field Day.
>I want to have two batteries included in the pack, one as the main battery
>(12 volt@20 AH gel cell) for the K2 and a accessory battery (12volt@4 AH)
>for LED lighting, palm top logging, etc. I wish to use some diodes to
>isolate the two batteries. As you can guess I wish to minimize the
voltage
>drop preceeding the batteries.
>
>Can anyone help me out with which type of diode to use? Since the diodes
>would be in circuit before the battery only the charging current would be
>through the diodes. I am using two of the Electronic Goldmine solar panels
>which at the most would be charging at 1 amp.
>
>Thanks in advance,
>Ward Hill, N1IE
>EX China Laker (Peace broke out)
>EX Vandenberg AFB Space Shuttle (Challenger accident)
>K2 S/N 614, Original Knob
>Engineer KOVR-TV
>www.kovr13.com
>
>
>---
>Submissions: elecraft@qth.net
>Please note: The list server automatically rejects HTML encoded emails.
>List Archive page: <http://www.qth.net/archive/elecraft/elecraft.html>
>Elecrafft Web Page: <http://www.elecraft.com>
>
>

Date: Tue, 18 Jan 2000 17:52:25 +0000
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [60675] Re: Solar Flare?
Message-ID: <20000118.175226.-151507.1.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

1755Z/18 Jan'2000

The 10 Meter band came back to life, and the noise level dropped off to normal

6 sounds dead, and 2M is OK

I am hearing the beacons on the 10 Meter band again, VE4ARM in EN09, WJ50/B in EL17, K5AB/B in Central Texas and so on....

I'll have to check the solar reports when I get to the other computer.

Meanwhile, while recovering from gout, I am stiiin on 28.060 MHz CW Any takers?

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp
My night light runs more power than my Rig!!!

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 18 Jan 2000 13:34:19 -0500
From: "Joseph Street" <joseph.street@comdev.ca>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [60676] FT-757GXII TNX
Message-ID: <3884B22B.B8B30201@comdev.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks for the responses to my question regarding output power shifts between wide and narrow filter cw modes on this rig. I see I am not the only one with this situation. For what its worth I'll just pass along what I have learned from my in depth probings into the circuitry.

The wide filter is always pulled in on transmit even when the narrow filter mode is selected. This is presumably to avoid the problem of the signal seeing the different insertion loss of the narrow filter during transmit. The filters are selected by diode switching. The RF signal driving the buffer stage preceding the filters is of a constant level between the two modes but the level seen at the output varies depending on mode selected. Since the bias levels to the buffer are also stable it looks like the level shift is brought about by differences in load seen by the buffer between the two modes. Since in both cases it is the SSB filter which the buffer is driving, I can only assume that the switching diodes are driven harder on the narrow mode than on the wide mode so they offer less loss to the signal and hence the TX output power looks higher on the narrow mode.

Possibly this could be leveled out by selecting the bias resistor that drives Q66(which pulls in the SSB filter for transmit while in the narrow mode) so that the filter switching diodes are driven the same in both cases. I haven't tried this yet.

If anyone has a better idea I would like to hear about it but just reply directly to VE3VX0@RAC.CA so as not to load the reflector with information which only a few of us would be interested in.

vy 72 de ve3vx0

Date: Tue, 18 Jan 2000 12:57:38 -0600
From: Bcieslak@ra.rockwell.com
To: qrp-l@lehigh.EDU
Subject: [60677] FS:QRP stuff
Message-ID: <8625686A.0068260F.00@ramilwsmt01.ra.rockwell.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

I just bought a new rig and have to clear out some stuff to make room for it.
(and keep peace in the house).

49er built up and working in Altoids tin. Stock construction(no mods) puts out about 250 mW \$25.00

38 Special, just a built up PCB (no cabinet) with Hi Power mod(no other mods) and 10 turn pot. Works good, \$35.00

Norcal 40. This is built from the run of Norcal Kits (pre- Wilderness). Works good but I always thought audio was a little Low. \$65.00.

If your interested email me
Brian AE9K

Date: Tue, 18 Jan 2000 14:17:47 EST
From: AD6EZ@aol.com
To: qrp-l@lehigh.edu
Subject: [60678] FYBO Website
Message-ID: <38.10fbf00.25b6165b@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Gang,

Please post or mail me direct the website for FYBO contest info. Thanks.

73 es God Bless de Denny AD6EZ <><
Goleta, CA

Date: Tue, 18 Jan 2000 14:20:57 -0500
From: hattonte@gdls.com
To: qrp-1@Lehigh.EDU
Subject: [60679] Knight RF Signal Generator
Message-ID: <0FB0CFEBE3.0B1B0F72-0N8525686A.0069CAB0@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Gents,

Hope this isn't too far off-topic. I need a schematic for a Knight RF signal Generator. There's no type number or date, but it uses a 12AU7 and a 6C4. Grey box with spring-loaded carry handle, 5 brown knobs + tuning dial. I'd say around mid 50's. Pls rply direct if u recognise. Tnx fer bandwidth.

Terry KI8JA
hattonte@gdls.com

Date: Tue, 18 Jan 2000 13:25:23 -0600
From: "Brockwell, Stephen E." <brockwse@fssec.army.mil>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [60680] FS or TRADE - freq counter
Message-ID: <C0DFB43A0D57D311B0170000F8BDCA840AE4D5@alrsv02>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

I've got an OPTOELECTRONICS model 7010 frequency counter supposed to be good from 0 mhz to 600mhz that right now only works on about 100mhz and up. (at least *I* can't get it to work on HF) It operates off of 12 volts and is about the size of a SW-40 or DSW-40 radio with case. I do not have the instruction manual but it seems pretty simple to operate. It has bnc

connectors on the back for 50 ohm and 300 ohm hookups (if I'm not mistaken).
I have hooked a small whip antenna on the connectors at the back and read
the frequency sent by my 2 meter and 440 mhz radios.

What I'd like to do is trade for an MFJ code tutor with the lcd display. I
think it's the 418 model??

Steve KC5TTY
KC5TTY

Date: Tue, 18 Jan 2000 19:38:24 +0000
From: Brian Short <bshort@speedchoice.com>
To: AD6EZ@aol.com, qrp-1@lehigh.edu
Subject: [60681] Re: FYBO Website
Message-ID: <4.1.20000118193022.04785510@mail.phoenix.speedchoice.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Please post or mail me direct the website for FYBO contest info. Thanks.

FYBO was the brain-child of Joe Gervais, contact:

vole@primenet.com

Brian - Tempe, Az

--
Brian K. Short <http://www.qsl.net/k7on/> <mailto:k7on@arrl.net>
--
See my auction items at:
<http://cgi3.ebay.com/aw-cgi/eBayISAPI.dll?ViewListedItems&userid=k7on>
--

Date: Tue, 18 Jan 2000 11:43:55 -0800
From: "George Steinert" <n6zs@ix.netcom.com>
To: "QRP" <qrp-1@lehigh.edu>
Subject: [60682] Finally! WAZ with 5 watts
Message-ID: <00bb01bf61ec\$5be3dfe0\$3aebd3c6@21jv0>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Pardon the bandwidth but I am celebrating!! Today I worked not one but two zone 34, SU9ZZ and 5A1A to complete Worked All Zones with 5 watts. I am very happy today!

73,

George Steinert, N6ZS
Sacramento, California

Date: Tue, 18 Jan 2000 13:48:24 -0600
From: Bcieslak@ra.rockwell.com
To: QRP-L@lehigh.edu
Subject: [60683] Re: FS:QRP stuff
Message-ID: <8625686A.006CCD2A.00@ramilwsmt01.ra.rockwell.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

The 38 S and the 49er are sold

Only the Norcal 40 remains.

Thanks to all,
Brian AE9K

Date: Tue, 18 Jan 2000 14:00:17 -0600
From: Karl Kanalz <KKanalz@excel.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [60684] Central Electronics Q-Multiplier
Message-ID: <2D343922E283D211945C0008C7A41B2A01A74329@adntex01.adsn.dal.excel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Earlier today, someone on the reflector was asking for information about the Central Electronics Q-Multiplier that was an optional "extra" in the Central Electronics "Signal Slicer" that was made back in the mid-50s.

A complete instruction manual AND schematics for the Signal Slicer And Q-Multiplier can be found at:

ftp://bama.sbc.edu/downloads/ce/slicer/slicer.pdf
<ftp://bama.sbc.edu/downloads/ce/slicer/slicer.pdf>

The file is in Acrobat (*.pdf) format, but the view can also download the Acrobat reader from the same site.

Karl K - W8TIF
McKinney, Texas

Date: Tue, 18 Jan 2000 15:01:58 -0500
From: hamjoel@juno.com
To: qrp-1@lehigh.edu
Subject: [60685] WIRE / ROPE ANTENNAS
Message-ID: <20000118.150200.-144159.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

High again once meaux y'all

well I decided that since it was warm today 18* F I would got my antenna stretched out straight... I got 66foots on either side of the rad shack 300 ohm foam twin lead.

Took a few tries, and stopped a few cars but I finally got my rod and reel to throw a rock over a tree about 50 foots up... then ulled up the rope and stretched out the antenna... just enough room... and 'cording to my mini compas the thing is broadside to the nw.... washing ton state or more toward alaska... somewhere in thair....

First I loaded up on 20 and worked some qrp sstv with k8bm Bob now I'm going load up on some ()..... the antenna tunes a lot easier than it did in the v configuration... hopes it's bettern what I had up before....

Joel KE1LA
In Maine

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 18 Jan 2000 13:05:40 -0700

From: Roger Hightower <n7kt@earthlink.net>
To: bshort@speedchoice.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60686] Re: FYBO Website
Message-ID: <3884C794.200750AE@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You'll find it at <http://www.extremezone.com/~ki7mn>

Scroll down and click on FYBO 2K.

--

72.....Roger

Roger Hightower, N7KT Mesa, AZ K2#591

Date: Tue, 18 Jan 2000 13:21:59 -0700
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-1@lehigh.edu
Subject: [60687] FYBO 2000
Message-ID: <200001182019.NAA21587@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

There has been some confusion on the FYBO site here. Joe AB7TT is flooded with work, and can't handle any volume of e-mails. Please go to <http://www.extremezone.com/~ki7mn/fybo2k.htm> for the rules.

One clarification.....the temp mult is for the lowest temp at your operating position, not for each contact. Oh, and don't run inside after you get the temp and work from the warmth of your shack :^)

Bob Hightower KI7MN
Chandler, AZ

<http://www.extremezone.com/~ki7mn>

Date: Tue, 18 Jan 2000 15:41:10 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [60688] Re: Antennas: 160 M Loop Rcv Antennas

Message-ID: <3.0.32.20000118154106.0072ca3c@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:31 AM 1/18/00 -0500, you wrote:

>Chuck,
>
>I don't have experience with receiving loops on 160, but have used them
>professionally at 1/10 the frequency in an LF relay network.
>
>They can work quite well to get rid of electrical noise. You don't even
>necessarily need a shielded loop, often a balanced one works as well.
>
>In our system we used a 4-foot tuned loop with excellent balance that
>had an electrical height of 16 mm! With a low-noise front end the
>background noise was high enough that a larger antenna would not improve
>the SNR.
>
>One thing that proved quite important however was coupling to the
>transmit antenna. (snip)
>take some evasive action.
>
>Good luck and...
>
>72/73,
>
>Joe E., N2CX

Joe,
Thanks for posting about the coupling with loops and other
antennas. I have often suspected that but my arms aren't
long enough to verify it. Guess I'll get my son to help in
testing the 8'SLV vs noise from the vertical.
(on a warmer day! HI!)
73 Pete NV4V

Date: Tue, 18 Jan 2000 13:00:04 -0800
From: Jerry Parker <jparker@fix.net>
To: qrp-l@LeHigh.edu
Subject: [60689] Mizuho qrp
Message-ID: <2.2.32.20000118210004.0072e0ec@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Date: Tue, 18 Jan 2000 12:16:35 -0700
>From: "Frank L. Hicks Jr." <hicksf@roomsystems.com>

>X-Accept-Language: en
>To: jparker@fix.net
>Subject: Mizuho qrp
>
>Trying to get some information on the Japanese MX series handheld hf qrp
>rigs. Any information???? thanks frank
>
>
>

Date: Tue, 18 Jan 2000 15:55:21 -0500
From: Laura Halliday <lha@sdr.utias.utoronto.ca>
To: qrp-l@lehigh.edu
Subject: [60690] RE: HELP on UNK SMT transistors
Message-ID: <4.2.0.58.20000118154649.009b61e0@madrox>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I find G4PMK's guide handy for such questions. It's at:

<http://www.marsport.demon.co.uk/smd/smdcode.html>

5H is a diode. Either an MMBD4148 switching diode (i.e. 1N4148),
or an MMBD701 UHF Schottky diode, depending on who made it.

Laura Halliday VA3LDH "Que les nuages soient notre pied
Grid: FN03gs a terre..." - Hospital/Shafte

Date: Tue, 18 Jan 2000 16:23:01 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [60691] RE: Blocking Diode Help
Message-ID: <200001182104.QAA01565@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

A Schottky Barrier diode will give a 200-300 mv drop, half that of a
"normal" diode. Commonly used in switching supplies due to their high
speed. PRV ratings are generally no more than 30-40 volts, but you can
get ones that handle 40 amps and 400 A surges.

Get them from Mouser, Digi-Key and the like. A 3 amp diode which can

handle 30 A surges runs 35 cents. Might as well get a bunch of them :-)

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Tue, 18 Jan 2000 14:08:02 -0700
From: Bob Nielsen <nielsen@primenet.com>
To: qrp-l@lehigh.edu
Subject: [60692] Re: FYBO 2000
Message-ID: <20000118140802.A702@bob.localnet>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

On Tue, Jan 18, 2000 at 01:21:59PM -0700, Bob Hightower wrote:
> There has been some confusion on the FYBO site here. Joe AB7TT is flooded
> with work, and can't handle any volume of e-mails. Please go to
> <http://www.extremezone.com/~ki7mn/fybo2k.htm> for the rules.
>
> One clarification.....the temp mult is for the lowest temp at your
> operating position, not for each contact. Oh, and don't run inside after
> you get the temp and work from the warmth of your shack :^)

Or turn on a blast furnace next to the operating position.

Hopefully the current AZ heat wave (80+) will be over by then.

--
Bob Nielsen, N7XY (ex-W6SWE) (RN2) nielsen@primenet.com
Tucson, AZ DM42nh QRP-L #1985 <http://www.primenet.com/~nielsen>

Date: Tue, 18 Jan 2000 15:24:21 -0600
From: W9SUL <pugrad@millcomm.com>
To: qrp-l@lehigh.edu
Subject: [60693] Wanted... Kent Single Lever Paddle (SP1)
Message-ID: <1.5.4.32.20000118212421.006e8108@pop3.rconnect.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Would like to buy a used, mint condition Kent Single Lever Paddle - Model SP1.

Please reply direct with description and price (including shipping) double

boxed and insured to zip of 55901.

72 / 73 Dave Cary - W9SUL/QRP Rochester, Minnesota
Home of the Mayo Clinic

Date: Tue, 18 Jan 2000 15:23:33 -0600
From: "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [60694] QRP/QRO Cheaters
Message-ID: <0974781F4FC8D211A24600902727E80624E4F8@saturn.rose.cc.ok.us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

This is for everyone,

My sincere apologies for bringing up the point that there are some who cheat at DXCC with illegal power levels rivaling commercial stations. Someone made the statement that the ARRL was afraid that QRP'ers would cheat if the ARRL offered a DXCC QRP award. I just pointed out that I knew of a FEW that cheated at QRO DXCC and that doesn't stop the ARRL from offering DXCC to them. THE POINT IS THAT THOSE THAT WISH TO HAVE A QRP DXCC SHOULD START A LETTER WRITING CAMPAIGN TO THE ARRL. IT IS YOUR ORGANIZATION.

Those of you who think that you should send me reams of FLAME and make accusations to which YOU know nothing are probably the ones that cheat! You should read what it is that you send. It is ignorant babaling. I will not make another mention of this privately or publicly, so keep your trash to yourselves.

Hal - WB9VMY

Date: Tue, 18 Jan 2000 13:27:58 -0800
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60695] Re:300 Ohm Feedline Measurements.
Message-ID: <3884DADE.7868E35B@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang, I decided to reduce errors due to eyeball factors and o-scope scales.

I decided I wanted an input voltage where 1 millivolt of change in output/input voltage results in .01 dB loss.

I did some math here and came up with a required input voltage of .869Volts.

In a matched system one can use the formula of $20 * \log_{10}(E_{out}/E_{in})$ for the dB conversion.

So to check, $20 * \log_{10}(.868/.869) = -.01 \text{ dB}$

That's RMS voltage and I'll use 2.457 volts p-peak as input. Probably just 2.5 volts peak-peak as that is right on the o-scope scale nicely.

So I'll have to use the Argonaut as an input source since the siggen can't quite supply that 2.5 V. p-p

The 270 Ohm 1/4 watt resistor can handle just over 23 Volts p-p so it won't blow.

I'll get back to y'all with some more accurate numbers on the feedline test.

Anyone else measure the brown 300 Ohm twinlead from RadioShack? (Loss at 30 MHz).

72/Ed we6w

--

-72/Ed WE6W; AR Millennium Q's=> 2479/2000 A-1 OP

<http://www.qsl.net/we6w> Santa Rosa, CA

QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

Date: Tue, 18 Jan 2000 21:27:55 +0000

From: "Mel Evans, Registered Arachne User" <mel@euramcom.freemove.co.uk>

To: Andrew Kiddle <andrew.kiddle@which.net>

Cc: qrp-l@lehigh.edu

Subject: [60696] Re: HW8 bitz

Message-ID: <E12AgDI-0001Nq-00.2000-01-18-21-30-57@mail4.svr.pol.co.uk>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

On Mon, 17 Jan 2000 23:33:48 +0000, Andrew Kiddle wrote:

> Mel Evans wrote:

>> Andrew,

>> I can ask for you on the qrp-l list stateside if you wish? Possible
>> source UK try Cedar Electronics, address in UK magazines, no website I
>> know of

>> Mel
>> euramcom

> Thanks Mel, I'd appreciate that...tried Cedar before Xmas but no joy, so
> if you'd be so kind give the US a try for me!

> 73 de Andy G4HVC

Hi Gangue,

As above, Andrew is seeking a tuning cap for an HW8. Anyone know of a
source? His existing one has literally fallen apart!

Andrew is at

andrew.kiddle@which.net

or I'll pass on a message, whichever.

Regards

Mel

Visit Mel's EURAMCOM pages for US/Euro Equivalent Parts
Resistors, Capacitors, Tubes, Color Codes, Wiring and more!

<http://www.euramcom.freemove.co.uk>

NEW! add your own homepage link INSTANTLY to the EurAmCom Pages

e-mail to: gm6jag@arrl.net
or: mel@euramcom.freemove.co.uk

72 & 73 de Mel

GM6JAG
Edinburgh Scotland UK
Home of the last HW9

Arachne, the Internet Suite and "QRP" Browser for DOS, supports tables, graphics, animations, forms, HTML 4.0 Transitional Pages and more!

<http://www.arachne4dos.freemove.co.uk>

Date: Tue, 18 Jan 2000 16:46:21 -0500
From: "Tom Bowman" <tbowman@nbn.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Cc: "Lenny Wintfeld" <w2bvh@home.com>, "Ian Purdie" <ianpurdie@integritynet.com.au>, "Pat Byers" <pbyers@rttinc.com>, "L. B. Cebik W4RNL" <cebik@utkux.utcc.utk.edu>, "D.K. Philbin" <dphilbin@thegrid.net>
Subject: [60697] Stable oscillator, Vackar, etc.
Message-ID: <LPBBKNNCCFBPAKMPADLJEE00CKAA.tbowman@nbn.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Back in November, after some talk here about stable VFOs, I began looking for "Stable Transistor VFOs," an article by Jim Fisk, Ham Radio, June 1968.

Through an interlibrary loan I got the eight page copy free last week. I'm sure I'll be going this route again for similar articles.

After three days of learning how to scan magazine pages and schematics into my computer, I succeeded - sort of. The results are on my web page in case you want to make copies.

<http://users.nbn.net/~tbowman/stblosc.htm>

I'm using an under-\$100 ImageWave scanner with what I consider poor results. Anyone who has information on what kind of software, and/or

scanning techniques
works best for schematics and magazine pages, please let me
know.

I am using Adobe Photo Deluxe 2.0 and Microsoft Image
Composer.
Unfortunately, these save the initial scan as jpegs rather
than gifs and I
think that is part of my problem.

Any and all help will be appreciated.

73,

Tom, WA3REY

Date: Tue, 18 Jan 2000 21:48:37 +0000
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: lha@sdr.utias.utoronto.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60698] Re: HELP on UNK SMT transistors
Message-ID: <3884DFB5.577C@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Laura Halliday wrote:

>
> I find G4PMK's guide handy for such questions. It's at:
>
> <http://www.marsport.demon.co.uk/smd/smdcode.html>

Here it only worked without the last 'l':

<http://www.marsport.demon.co.uk/smd/smdcode.htm>

73,

--

Arjen Raateland
OH2ZAZ

SAS Support
Finnish Environment Institute, Helsinki

AX.25: OH2ZAZ@OH2RBI.FIN.EU

Date: Tue, 18 Jan 2000 16:52:54 EST
From: ARDUJENSKI@aol.com
To: nwq-1@scn.org, qrp-1@lehigh.edu
Subject: [60699] DCTL ANT TEST TONITE 0100Z
Message-ID: <89.aa7067.25b63ab6@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I am testing a DCTL (Distributed Capacitance Twisted Loop) tonite 0100Z around 7044. If you get a chance either stop by for a sig report or send me an email if you heard me.

The loop is about 15ft of 300 ohm line, see site below for details:

<http://home.earthlink.net/%7Emwattcpa/antennas.html>

I want to test this for a friend before he goes to England for 4 months. It worked like gang busters on 20M today so just need to test 40M. Thanks

Alan KB7MBI

Date: Tue, 18 Jan 2000 10:15:03 -0700
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [60700] 10 meter qso...
Message-ID: <38849F97.6CF2@eFortress.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

Ten is not in too bad a shape. Just had a nice qso with Keith WB2VU0, while I was on my way home from work. He was 579 most of the time.

Now, to get to work on a decent antler for 10m. Thinking about a 20 meter rotary dipole that will also work as a double zepp on 10 meters. Going to feed it with 450 ohm balanced line.

72, Tom WB5QYT..."Have spud will travel!"

Date: Tue, 18 Jan 2000 17:37:34 -0500
From: "Ron Polityka" <wb3aal@talon.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [60701] Re: FYBO 2000
Message-ID: <009801bf6204\$9db158e0\$7de508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I hope the current cold wave is still with us on the East Coast.
Last night in the Poconos temp. was -38°F and with the
wind chill it was -100°F.

Burrrrrr

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv
<http://www.n3epa.org>
Eastern Pennsylvania QRP Club Call --> N3EPA

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI-QRP #153
VA QRP Society	

SETI @ Home Project
<http://setiathome.ssl.berkeley.edu>
120 + Work Units Completed

Date: Tue, 18 Jan 2000 16:43:32 -0600
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-l@Lehigh.EDU>

Subject: [60702] DXCC QRP!!
Message-ID: <009901bf6205\$734937c0\$419b66a6@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

I have thoroughly wore out my welcome with my Division ARRL director (Delta by the way). You have got around to sending a message to yours haven't you? It is very simple to do and even if you not a league member let you voice be heard by e-mail. All ARRL Division Directors have e-mail addresses are listed in the front pages of QST. See the link below if you don't have one handy. The subject comes up here about every 4 months here on QRP-L. Why not let the league know how you feel on the QRP DXCC subject. Keep it positive and respectful, the mountains will move. Advice I usually fail in.

You might also mention about all the great QRP events that keep growing. QRPers are the most loyal and supportive group I have ever seen. Take HamCom for instance with that Texas heat. Two years ago I was one of the 25 attendees at HamCom and last years HamCom QRP forum was around 150 plus. How's that for growth !! Last year during a ice storm we had a ton of cancellations, but we ended up with over 70 attendees on Fort Smith's first QRP forum ever. Not to mention Fort Tuthill, Pacificon, Atlanticon, FDI, etc.

What's the point of all of this you say? Well when is the last time you saw a DX forum or club grow like this? They need some young energetic blood like what's in the QRP Fraternity. Invite them out to see the all the fun we're having instead of preaching goom-n-doom ham radio. They really don't understand us, I mean look at us, milliwatts on 160m! Looking back last year, the most fun I had was seeing other people having a ball on Ed Hare's TT-2 at Fort Tuthill operating W1AW/7 and the Fox hunt at Pacificon. Seeing Chuck Adams and Dave FiField try to out do each other by standing higher on a table while operating is something you sure won't see in another group. Well I think you get the point. Now that the big DX convention in New Orleans bit the dirt last year this should be an easy sell.

Click here to see who your Division Director is

<http://www.arrl.org/divisions/>

You can send an e-mail right from here and like the page says they (the ARRL) represent YOU!

73 de w5jay..

Date: Tue, 18 Jan 2000 16:45:12 -0600 (CST)
From: Joe Reed <joe@n9jr.dyndns.org>
To: George Steinert <n6zs@ix.netcom.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [60703] Re: Finally! WAZ with 5 watts
Message-ID: <Pine.LNX.4.05.10001181640020.1158-100000@n9jr.dyndns.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Congratulations!

That is an amazing accomplishment. Most folks fall short of the mark at 1.5K. WAZ at 5 watts is nothing short of *WOW*. Not always because of propagation, but on the rarer zones you are going toe to toe with the big power boys.

I, who had to power up the L4B to work the XZ, stand in awe of what you have accomplished. Are you up for 5BWAZ :)?

Good luck on the cards to confirm and submit.

Joe N9JR

On Tue, 18 Jan 2000, George Steinert wrote:

> Pardon the bandwidth but I am celebrating!! Today I worked
> not one but two zone 34, SU9ZZ and 5A1A to complete
> Worked All Zones with 5 watts. I am very happy today!
>
> 73,
>
> George Steinert, N6ZS
> Sacramento, California
>

Date: Tue, 18 Jan 2000 22:47:26 +0000
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [60704] Re: Solar Flare?
Message-ID: <20000118.224727.-70563.2.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

After my post about the possible solar flare, I received a reply from Howard, W7ILW. He gave me a link to the NOAA Solar Weather site at the following URL:

<http://www.sec.noaa.gov/today.html>

Well, it was a flare, not having a "feel" for the data displayed I can't really say how big, but it pegged the meter on the 6 Meter rig from 1655Z to 1710Z and kept it up around an S5 with QSB that made it sound like distant surf. The peak on the graph matched the time I heard the flare right down to the time and the duration.

I also heard it on 10M and the 2M rig was picking it up. Amateur radio Astronomy! No additional gear needed!

This is really, really an outstanding happening! I not only saw the Sun today I heard it!

Who says that all of this radio stuff isn't neat?!?

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp
My night light runs more power than my Rig!!!

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 18 Jan 2000 16:56:54 -0600

From: "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>

To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>

Subject: [60705] Jim, N2G0's Scope

Message-ID: <0974781F4FC8D211A24600902727E80624E4FE@saturn.rose.cc.ok.us>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Jim really wants this scope so he can build that really really really small QRP rig for the 1V challenge.

Hal - WB9VMY

Date: Tue, 18 Jan 2000 18:47:07 -0500
From: "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
To: <qrp-1@Lehigh.EDU>
Subject: [60706] OPERATING: QRPpp
Message-ID: <002101bf620f\$0af31ec0\$0102030a@amd300>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi All,

Anybody want to try some MilliWattting tonight?
I'll be sending CQ at LESS THAN 10 mWatts around 1810
from 0000Z until 3000Z

73 - Dieter (DIZ) Gentzow - WB8QYY "oo's"
Loveland, Ohio - NE suburb of Cincinnati
FPqrp#-1 DL-QRP-AG#1454 QRP-L#1998 10-X#9389 CATT#26 K2#493
<http://w3.one.net/~gentzow/wb8qyy.htm>

Date: Tue, 18 Jan 2000 18:47:45 EST
From: AD6EZ@aol.com
To: qrp-1@lehigh.edu
Subject: [60707] Tnx For FYBO Info.
Message-ID: <47.d17577.25b655a1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Gang,

Thanks for the info on FYBO. Looks like I'm set and good to go! Now if I
can just stay healthy till then - missed most of FYBO last year with the
worst cold I've had in a long time.

Agn tnx to all who sent me the info and to those that didn't because someone
else surely was going to! This list never fails - It is GREAT!

73 es God Bless de Denny AD6EZ <><
Goleta, CA

Date: Tue, 18 Jan 2000 23:47:45 +0000
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [60708] 10 Meters Today
Message-ID: <20000118.234746.-70563.3.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

If I was not sitting here with a bad case of gout, this would have even been better, but 10 has been outstatnding today from the Great Bergen Swamps

Best DX, 1 A.U., but the signal I heard was NOT QRP! The solar flare at 1655Z was LOUD, and the band rebounded nicely.

1730 - 1900Z the band reopened to Europe and Africa. Beacons were copied from all over ranging from NOrway to South Africa. The LA beacons and the VE8 beacons showed signs of auroral propagation (on 15M, too)

2140Z I hooked up with another QRP-L'er, WB5QYT/m/QRP. Tom was mobile on his way home from work, and was running 549 to 579, mostly at the top of that range.

2257Z I heard AL7FS and gave Jim a call. He gave me a 339 and he ran 329 to 449 in here on my GP and Ten Tec 540. Jim signed and picked up a 1 in MA (NN1XX or was it AA1XX?)

I am sitting here now (2350Z) just after dinner, and the W6TOD/B beacon in CA (28.222 MHz, grid DM15) is 579 on peaks. VK2RSY was in there a bit, (28.262 MHz) but just got bits & pieces, not a full call. The VE7MTY/B beacon (28.197 MHz, grid CN89) is about a 439 as I type.

Not a bad day for 10, just wish I could spend a bit more time on the band and less typing tests and procedures.

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp
My night light runs more power than my Rig!!!

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End of QRP-L Digest 1704
